

QNAP

**Stay
one
step
ahead**



Product Selection Guide
2023



Système d'exploitation QES

Le système d'exploitation QES est fondé sur le noyau FreeBSD simple et efficace et sur le système de fichiers ZFS qui, au fil des années, s'est avéré être le mieux adapté aux applications d'entreprise haut de gamme



Priorité à l'intégrité des données

QES utilise ses sommes de contrôle de bout en bout pour détecter et corriger la corruption silencieuse des données causée par des défauts matériels, des bugs dans les microprogrammes ou des erreurs de métadonnées. Si une violation de l'intégrité est détectée, QES répare automatiquement les dommages en utilisant les données de l'autre miroir avant que les données ne soient transmises aux applications.



Déduplication et compression des données

QES prend en charge la déduplication des données par bloc pour récupérer l'espace de stockage utilisé par les données redondantes/répétées et la compression des données en ligne pour réduire la taille des fichiers. Ces deux fonctions optimisent l'utilisation du stockage et permettent aux entreprises de réaliser des économies lorsqu'elles utilisent des disques SSD.



Double contrôleur

Haute disponibilité actif-actif avec une efficacité du stockage optimale

Le NAS ES basé sur QES est alimenté par deux processeurs et dispose d'une architecture à double contrôleur actif-actif, garantissant aux entreprises une haute disponibilité avec un temps d'arrêt quasi nul, car le contrôleur de secours peut rapidement prendre le relais si un contrôleur tombe en panne.



Système actif-actif à double contrôleur

Les deux contrôleurs du NAS ES peuvent gérer le flux de trafic, ainsi que la protection Copy-To-Flash contre les pannes de courant et la conception de l'interface SAS à double chemin. Outre la conservation des ressources informatiques, un service de stockage à grande vitesse, ininterrompu et à haute disponibilité est également fourni par le biais de protocoles de communication tels que SMB, NFS et iSCSI.



NAS 100% flash

Stockage 100% flash. Performance ultime

Les solutions de stockage All-Flash de QNAP sont dotées des technologies de réduction des données ZFS et d'optimisation des SSD afin de maximiser les performances et la durée de vie des SSD - parfait pour garder votre entreprise agile et efficace !



Stockage optimisé pour la mémoire flash

L'amplification de l'écriture est un effet indésirable des SSD, qui pose des problèmes de performance et d'endurance de la mémoire flash. L'algorithme exclusif Write Coalescing de QNAP est conçu pour l'optimisation de la mémoire flash en transformant toutes les écritures aléatoires en écritures séquentielles et en réduisant les entrées/sorties. Non seulement il augmente efficacement les performances d'écriture aléatoire pour les environnements All-flash, mais il peut également améliorer la durée de vie des SSD.

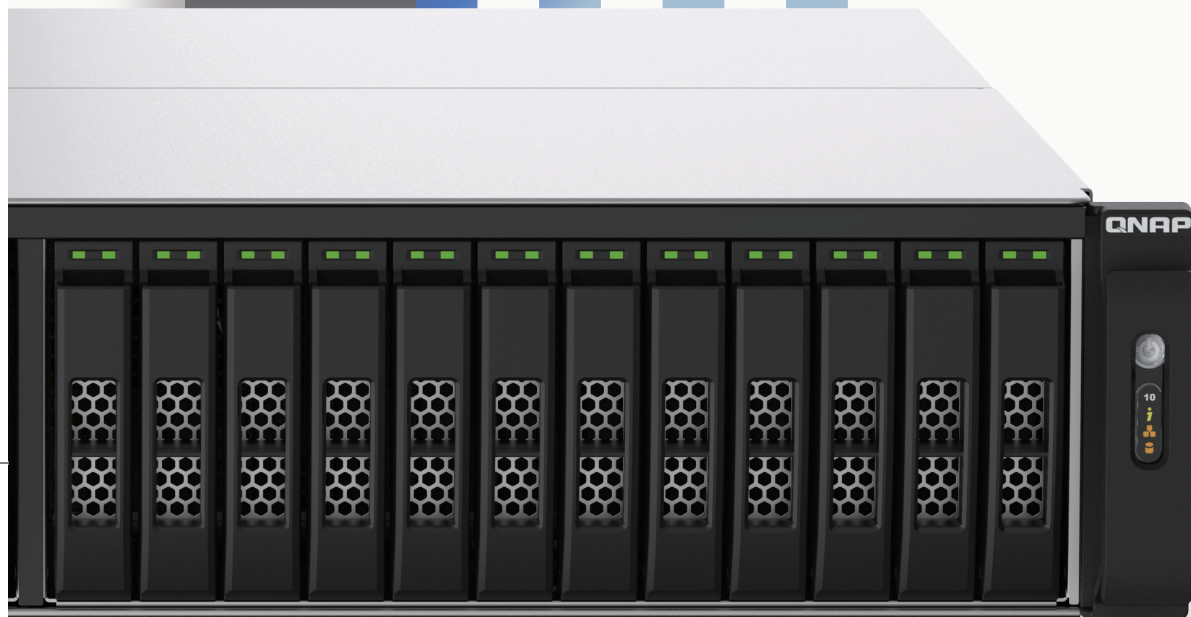


Quality of Service

Le QoS donne la priorité aux performances des applications critiques qui s'exécutent en même temps que des applications non critiques et réduit les problèmes de nuisances sonores.



NAS 100% flash



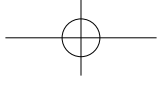
Compression et compactage des données en ligne

La compression des données en ligne réduit la taille des fichiers afin de diminuer la charge de travail des E/S de stockage et d'améliorer les performances. Elle permet également d'optimiser l'utilisation du stockage en cas d'over-provisioning des SSD.



SSD TRIM

Alors que presque tous les disques SSD ont montré une dégradation constante des performances en écriture, TRIM aide à surmonter les baisses de performances en écriture. Le SSD TRIM permet au système d'informer les SSD de supprimer les blocs de données inutiles. Les tâches de suppression sont traitées pendant les périodes d'inactivité du système, ce qui signifie qu'il n'est pas nécessaire d'attendre que de nouvelles données soient écrites sur le bloc.



Système d'exploitation ZFS haute performance avec une fiabilité supérieure

Le système d'exploitation QNAP "QuTS hero" combine le système QTS basé sur les applications avec le système de fichiers ZFS 128 bits pour offrir une gestion flexible du stockage, une protection complète des données et des performances optimisées afin de répondre aux besoins des applications critiques.

ZFS

Une technologie efficace de réduction des données

La déduplication des données en ligne est basée sur les blocs et s'exécute avant que les données ne soient écrites sur le stockage. Cela permet d'optimiser l'utilisation du stockage tout en réduisant considérablement les besoins en capacité de stockage. Associé aux technologies de compression et de compactage en ligne, ZFS réduit considérablement l'empreinte de stockage globale, ce qui est particulièrement utile pour augmenter l'efficacité du stockage sur SSD lorsque des données hautement répétitives ou des petits fichiers massifs sont générés.



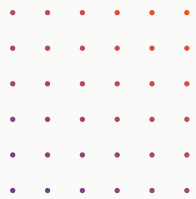
Snapshots instantanés quasi illimités

ZFS prend en charge jusqu'à 65 535 snapshots pour les LUN iSCSI et les dossiers partagés afin de réaliser une version complète des snapshots. Si un snapshot est créé toutes les heures, soit 24 snapshots par jour, il est possible de créer jusqu'à 7 ans de snapshots sans avoir besoin d'en supprimer !



Une capacité pouvant atteindre le pétaoctet par dossier partagé.

Le système de fichiers 128 bit ZFS présente un énorme potentiel de capacité et prend en charge la gestion native des niveaux RAID standard et des dispositions RAID ZFS supplémentaires (RAID Z). Les solutions de stockage QNAP basées sur ZFS offrent une capacité allant jusqu'à 1 PB pour les dossiers partagés individuels, permettant ainsi aux entreprises de s'attaquer aux applications exigeantes en matière de stockage.



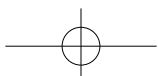
QUTS hero

QUTS hero



SnapSync en temps réel

La fonction avancée de SnapSync en temps réel basée sur les blocs garantit que le NAS primaire et le NAS secondaire conservent toujours les mêmes données, offrant ainsi la meilleure prise en charge des opérations commerciales en continu et aidant les utilisateurs à éliminer le risque de perte de données!



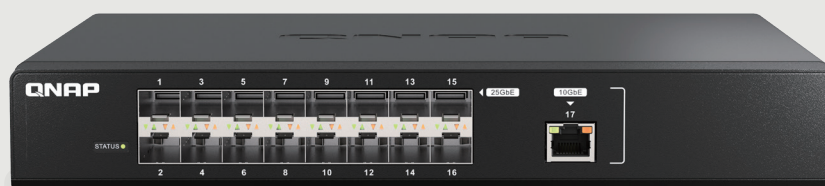
Réseau haut débit 25GbE

Permet un débit rapide comme l'éclair pour les tâches exigeantes en bande passante telles que la virtualisation, la transmission de données massives et la sauvegarde/restauration rapide.



NAS All-flash prêt pour le 25GbE

Le TS-h3088XU-RP intègre une SmartNIC SFP28 à double port 25GbE avec le contrôleur NVIDIA® Mellanox ConnectX-4 Lx SmartNIC qui prend en charge iSCSI Extensions for RDMA (iSER) pour augmenter les performances de transfert de données entre le NAS et le serveur ESXi et décharger les charges de travail du CPU.



Switch manageable 25GbE rentable

Le QSW-M5216-1T est un Switch web manageable de niveau 2 25GbE qui offre des interfaces réseau flexibles pour une compatibilité élevée à un prix intéressant, permettant aux petites entreprises de passer rapidement à un réseau très haut débit en s'intégrant à l'infrastructure réseau existante.



Connectivité 10GbE : L'avenir, c'est maintenant!

La connectivité 10GbE améliore les performances globales du réseau et les tâches quotidiennes grâce à une bande passante dix fois supérieure à celle du 1GbE. En proposant des NAS, des adaptateurs réseau et des switches 10GbE-ready, QNAP est un fournisseur unique pour tout ce dont vous avez besoin pour créer votre propre environnement 10GbE.



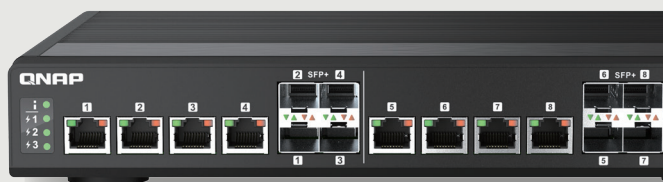
Solutions NAS 10GbE

QNAP propose une gamme de NAS avec des solutions matérielles et logicielles intégrées qui peuvent tirer le meilleur parti de la bande passante fournie par les réseaux 10GbE.



Switches 10GbE

Les switches 10GbE de la gamme QSW de QNAP prennent en charge le 10GBASE-T et NBASE-T, ce qui vous permet de profiter de vitesses réseau plus élevées avec les câbles Cat 5e et 6a existants. Les ports SFP+ (fibre) et RJ45 (cuivre) sont disponibles pour répondre à vos besoins réseau.

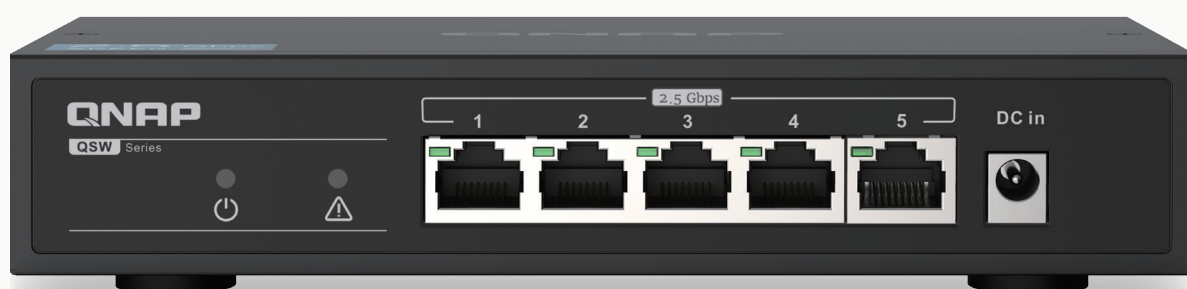


Adaptateurs réseau 10GbE

QNAP propose une carte d'extension PCIe 10GbE et des adaptateurs Thunderbolt vers 10GbE pour doter les appareils d'une connectivité 10GbE. La carte d'extension QM2 n'inclut pas seulement la connectivité 10GbE, mais offre également la possibilité d'ajouter des SSD M.2 à votre station de travail ou à votre NAS.

Le 2.5GbE n'est pas seulement pour les bureaux, mais aussi pour les particuliers.

Le manque de switches de catégorie grand public a rendu difficile l'adoption du 2.5GbE/5GbE par les particuliers. QNAP propose désormais des switches multiport rentables qui prennent en charge l'Ethernet 10G/5G/2.5G/1G/100M, vous aidant ainsi à transformer votre réseau domestique à un prix raisonnable.



Switches 2,5GbE

QNAP propose une série de switches 10GbE prenant en charge cinq vitesses (10G / 5G / 2,5G / 1G / 100M) et une série de switches 2,5GbE. Avec des ports 2,5GbE, le switch QNAP peut instantanément mettre à niveau votre réseau pour tirer parti des périphériques et NAS compatibles 2,5GbE.



Fonctionne avec les câbles existants

Aucun câble ou connecteur spécial n'est nécessaire pour profiter de 2,5GbE. Utilisez simplement vos câbles CAT5e existants avec votre nouvelle infrastructure 2,5GbE.



Solution NAS 2,5GbE



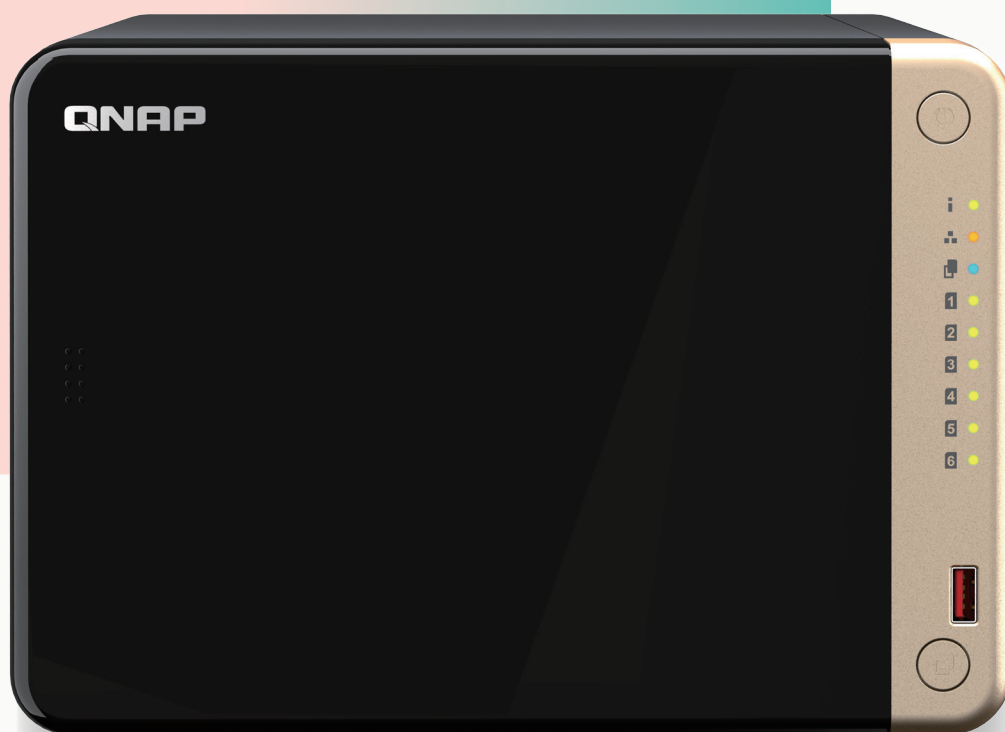
2.5 fois plus rapide

2,5GbE est 2,5 fois plus rapide que l'Ethernet standard (1GbE), augmentant ainsi les performances du réseau pour accroître la productivité.



Plus abordable

Si vous ne pouvez pas vous permettre une mise à niveau vers le 10GbE pour le moment, le 2,5GbE - plus abordable - offre une amélioration notable des vitesses Ethernet actuelles.





Performances incroyables et connectivité de pointe grâce aux NAS Thunderbolt



QNAP offre le meilleur de la connectivité avec les NAS Thunderbolt™. Les professionnels de la production vidéo utilisant les NAS Thunderbolt™ de QNAP bénéficient de flux de travail efficaces, d'une vitesse sans précédent et d'une incroyable polyvalence.



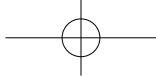
Transfert ultra-rapide

Editez directement sur votre NAS grâce à la connectivité Thunderbolt™ 3 ultra rapide. Avec des vitesses potentielles allant jusqu'à 40Gbps, connectez vos Macs compatibles et autres appareils Thunderbolt™ 3 directement au NAS et travaillez sans vous soucier du débit réseau..



Facilitez les flux de travail 10GbE avec Thunderbolt-to-Ethernet.

L'innovant convertisseur T2E établit un lien entre les réseaux Thunderbolt et Ethernet, permettant aux ordinateurs compatibles Thunderbolt de se connecter à ces réseaux via leur connexion Thunderbolt au NAS Thunderbolt de QNAP. Cela permet d'économiser un port 10GbE et élimine le besoin d'adaptateurs ou de cartes réseau supplémentaires.



Solution NAS Thunderbolt



Haute disponibilité avec l'USB Type-C

L'utilisation de l'USB Type-C par Thunderbolt 3 offre une connexion universelle du NAS QNAP aux appareils Thunderbolt ainsi qu'à d'innombrables appareils USB Type-C par le biais d'un seul câble, ce qui permet le partage de fichiers et le stockage centralisé de données sans avoir à utiliser plusieurs câbles.



Station de collaboration pour Mac et Windows

La bande passante supérieure du Thunderbolt 3 permet un montage vidéo fluide et un partage de fichiers plus rapide pour les photographes, les monteurs vidéo et les graphistes. Il est possible de connecter jusqu'à 2 appareils Thunderbolt™ au NAS Thunderbolt de QNAP pour traiter simultanément l'édition photo et audio en temps réel sans affecter les performances du système.



Créez facilement votre cloud personnel et accédez-y depuis n'importe où

Contrairement à l'espace de stockage limité et aux problèmes de sécurité potentiels des services de cloud public, le NAS de QNAP est avantageux pour établir un cloud personnel sécurisé et de grande capacité.





Une solution de sauvegarde tout-en-un et facile à utiliser

Le NAS QNAP peut effectuer de nombreuses tâches, mais son cœur est une solution de sauvegarde complète pour protéger vos fichiers et vos données. En sauvegardant régulièrement vos fichiers et le contenu de votre appareil, vous pouvez faire de la perte de données une histoire ancienne.



Un plaisir multimédia amélioré

Le NAS QNAP est livré avec une large gamme d'applications multimédia, notamment Photo Station, Video Station et Music Station, vous permettant de gérer et de visualiser facilement vos fichiers multimédia.



Connexion à distance facile et sécurisée avec myQNAPcloud

myQNAPcloud vous permet de rester connecté à votre NAS QNAP en utilisant un nom de domaine unique. Aucun routage ou configuration complexe n'est nécessaire, et myQNAPcloud renforce les clés des certificats SSL à 2048 bits pour permettre un accès à distance sécurisé, la gestion et le partage des fichiers et vérifier l'état de votre système de n'importe où.



Un centre de sauvegarde sécurisé avec protection des snapshots

Les snapshots sont essentiels pour la protection des données des NAS, et leur fonction de niveau bloc en fait une méthode de protection des données fiable face aux menaces croissantes de ransomware.



Connexion à un téléviseur ou un moniteur avec HDMI

Grâce à la sortie HDMI, le NAS de QNAP vous permet de profiter directement du contenu multimédia, d'utiliser des navigateurs web, de gérer votre NAS, ou de regarder des vidéos de surveillance enregistrées ou des flux en direct sur votre NAS.



Une extension de stockage flexible et économique

Le Direct-Attached Storage (DAS) ajoute une capacité de stockage supplémentaire à votre PC en étant directement connecté via un port USB ou un autre port. Par rapport au stockage en réseau (NAS), le DAS est généralement prêt à l'emploi pour un seul PC et convient aux utilisateurs qui cherchent simplement à étendre le stockage d'un seul PC et non les fonctions avancées et la connectivité réseau d'un NAS.





Support RAID

Le DAS QNAP prend en charge différents niveaux RAID pour améliorer les performances et la protection des données.



Interface simple

Le QNAP External RAID Manager vous aide à surveiller le système DAS, les lecteurs et l'état de fonctionnement. Il envoie automatiquement des alertes système à votre PC si une erreur se produit.



Pour l'extension du NAS

Les DAS de QNAP peuvent être utilisés avec l'USB Type-C, SATA ou SAS pour un transfert de données plus rapide et peuvent être facilement gérés à l'aide de QTS / QuTS hero Storage & Snapshots. La série TL est adaptée à l'expansion des NAS.



Installation sans effort

Le DAS est entièrement plug-and-use et ne nécessite aucune configuration réseau. Un bouton d'éjection est inclus pour retirer rapidement le DAS de l'ordinateur connecté.



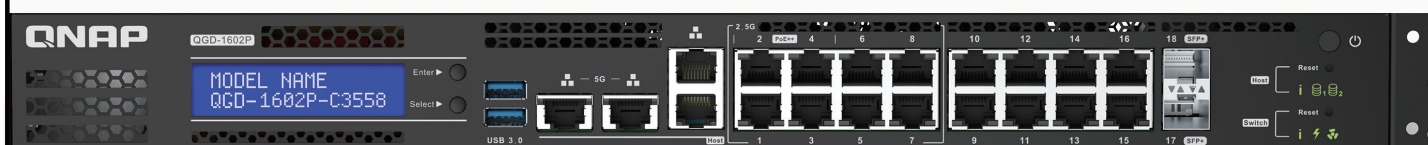
Pour l'extension des PC

Les DAS de QNAP sont des choix idéaux pour les utilisateurs de PC qui cherchent à étendre leur espace de stockage. Ils utilisent un port USB Type-C, SATA ou SAS pour un transfert de données plus rapide et prennent en charge les configurations RAID contrôlées par logiciel et par matériel pour une configuration de stockage flexible.



ADRA, appareils de détection et de réponse du réseau (NDR)

Les appareils ADRA NDR de QNAP (Network Detection and Response) filtrent sélectivement les traces du réseau et détectent les mouvements latéraux des logiciels malveillants, stoppant les activités hostiles avant que les fuites de données et le cryptage ne se produisent.



Les appareils de cybersécurité d'ADRA NDR font l'objet d'une évaluation rapide

L'ADRA NDR identifie avec précision les activités malveillantes sur votre réseau local sans en affecter les performances. Le mécanisme propriétaire de filtrage rapide utilisé dans l'ADRA NDR détecte les activités potentiellement malveillantes sur la base d'un ensemble de critères et réagit à ces anomalies conformément aux politiques définies. La sécurité de votre réseau s'en trouve considérablement améliorée, sans que les performances n'en soient affectées.



Détection des menaces

L'ADRA NDR est équipé de fonctionnalités d'analyse approfondie qui permettent des inspections en profondeur des logiciels malveillants et des exploits de vulnérabilité. L'ADRA NDR est également capable de simuler un piège de menace pour que les logiciels malveillants lancent des attaques. Une fois que le logiciel malveillant est actif, le dispositif de cybersécurité détecte les comportements hostiles et prend des mesures.



Analyse des menaces

Une fois les activités suspectes capturées par la détection des menaces (Thread Detection), les paquets de trafic réseau sont analysés en fonction d'un ensemble de règles afin de déterminer le type d'attaque. Différents événements de détection au fil du temps seront évalués les uns par rapport aux autres afin de déterminer leurs relations en tant que critère supplémentaire pour évaluer les niveaux de risque associés.



Réponse à la menace

Isole uniquement les appareils affectés pour limiter et stopper l'attaque des logiciels malveillants dans un périmètre plus petit, sans arrêter l'ensemble du réseau. Les administrateurs informatiques peuvent prendre une série de mesures (telles que l'isolement ou l'autorisation temporaire) pour répondre de manière flexible aux besoins opérationnels.



QuWAN SD-WAN pour une infrastructure informatique résiliente

La solution SD-WAN QuWAN de QNAP est dotée du VPN Auto Mesh, du cryptage IPsec et d'une gestion centrée sur le cloud. Compatible avec une large gamme de solutions QNAP, QuWAN permet aux PME de construire efficacement un réseau fiable à un prix avantageux, et de faciliter la transformation numérique, l'expansion multi-sites et le travail à distance.



VPN auto mesh

Établit automatiquement un VPN maillé et supprime la nécessité de paramétrer manuellement un VPN statique.



Gestion en cloud

Le QuWAN Orchestrator permet une gestion centrale du réseau puissante et pratique.



Sécurité du réseau

Adopte l'inspection approfondie des paquets pour analyser les L7-Payloads à la recherche d'informations sur le contenu des sites Web et des appareils.



Optimisation du WAN

Le QuWAN adopte des technologies d'équilibrage de charge pour combiner la bande passante de différents FAI et hiérarchiser l'utilisation de la bande passante.



Optimisation des coûts

Optimise la transmission par fibre/réseau pour réduire le coût des équipements VPN et les dépenses en bande passante.



Interface graphique Web

Offre des fonctionnalités conviviales, notamment un tableau de bord, eMap, l'analyse du trafic, etc.



Profitez d'une expérience Wi-Fi maillé à grande portée

Le QMiro-201W et le QMiroPlus-201W prennent en charge la transmission sans fil tri-bande Wi-Fi 5 et le transfert Mesh Wi-Fi, garantissant ainsi des connexions Wi-Fi stables et une meilleure qualité de signal via un réseau Mesh Wi-Fi.



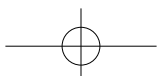
Connectez votre maison avec le Wi-Fi maillé tri-bande haute portée

QMiro-201W / QMiroPlus-201W adopte la technologie Wi-Fi Handover, permettant à plusieurs utilisateurs d'être automatiquement connectés au routeur dont le signal Wi-Fi est le plus fort avec un seul SSID. Grâce à la double bande 2,4GHz/5GHz, QMiro-201W / QMiroPlus-201W fournit une fréquence Mesh 5GHz dédiée pour les connexions à large bande passante entre les routeurs Mesh Wi-Fi, garantissant des connexions Wi-Fi fluides et stables.



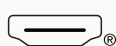
Wi-Fi Mesh tri-bande dédié pour des connexions fluides

Prend en charge le Wi-Fi tri-bande de 2,4GHz, 5GHz et une bande Mesh Wi-Fi dédiée de 5GHz pour des connexions à large bande passante entre les routeurs Mesh Wi-Fi. Contrairement aux routeurs classiques à double bande dont la bande 5GHz doit être partagée entre les clients Wi-Fi et les routeurs Mesh Wi-Fi, le QMiro-201W / QMiroPlus-201W garantit des connexions Wi-Fi fluides et stables.



La nouvelle génération de solution de surveillance IP intelligente et de sauvegarde à distance

Avec la solution de surveillance intelligente QVR Elite sur abonnement, vous ne payez que pour les licences de canaux dont vous avez besoin, ce qui vous permet de protéger votre bien, à un prix raisonnable. Vous pouvez disposer d'un espace de stockage dédié et indépendant pour les données de surveillance sur le NAS de QNAP et profiter d'une gestion simplifiée des caméras, de l'allocation d'espace de stockage, de la visualisation en direct des caméras et de la lecture. Les enregistrements sont sauvegardés sous forme de fichiers MP4 pour être lus sur presque tous les appareils.



Surveillance directe sur un écran HDMI

Lisez facilement les enregistrements sur un écran HDMI connecté à l'aide du QVR Smart Client. Recherchez des enregistrements d'événements dans une période de temps et une zone de détection spécifiées dans l'interface utilisateur.



Exploitez les applications basées sur l'IA pour des services à valeur ajoutée

Les séquences de surveillance du QVR Elite peuvent être traitées par plusieurs applications d'analyse vidéo basées sur l'intelligence artificielle de QNAP (par exemple, QVR Face, QVR Human, QVR DoorAccess) afin de doter vos systèmes de surveillance d'un accès intelligent aux portes, d'une reconnaissance faciale, de capacités de comptage humain et plus encore.



QVR Pro Client : Surveillance et gestion centralisées

QVR Pro Client vous permet de surveiller plusieurs canaux simultanément. Vous pouvez passer en toute souplesse de l'affichage en direct au mode de lecture afin de faciliter la surveillance et la gestion centralisées.



Enregistrements au format vidéo MP4

Le QVR Elite enregistre les fichiers vidéo au format MP4, universellement pris en charge, ce qui permet une lecture fluide sur tous vos appareils. En outre, vous pouvez facilement sauvegarder les enregistrements sur d'autres NAS QTS / QuTS hero ou sur un espace de stockage dans le Cloud en utilisant Hybrid Backup Sync ou HybridMount.



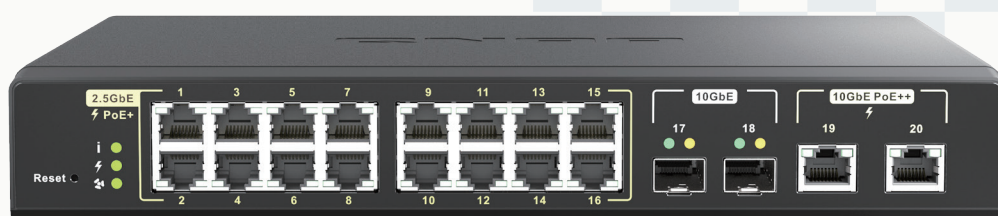
Capacité d'extension flexible

Vous pouvez créer plusieurs espaces d'enregistrement pour les enregistrements de QVR Elite. Si vous manquez d'espace de stockage, vous pouvez facilement étendre votre stockage NAS en vous connectant à des boîtiers d'extension QNAP.



Faible coût : plan d'abonnement flexible

QVR Elite est basé sur un abonnement, avec des plans d'abonnement mensuels, annuels et de 3 ans. Vous pouvez construire un système de surveillance robuste à un prix mensuel peu élevé de 1,99 \$ US par canal. Vous pouvez modifier l'abonnement en fonction de vos besoins pour atteindre une meilleure rentabilité.



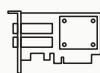
Des accessoires polyvalents et riches en fonctionnalités pour améliorer les performances de votre système

La gamme complète de cartes et d'accessoires PCIe de QNAP permet aux utilisateurs de mettre à niveau les fonctionnalités de base des NAS/PC afin de répondre à des besoins divers et d'optimiser l'efficacité et la productivité du travail.



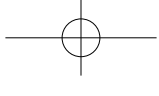
Adaptateurs réseau filaires

- **Adaptateurs de la gamme QNA:** Connectez-vous à des réseaux à plus haut débit via Thunderbolt™ 3 ou USB 3.0.
- **Cartes PCIe de la gamme QM2:** Ajoutez des SSD M.2 et des ports réseau à votre NAS
- **Carte d'extension réseau:** Ajoutez de manière flexible des ports réseau et de la bande passante pour booster les performances de transfert de données.



Cartes d'interface

- **Carte d'extension SATA QXP:** Augmentez le stockage d'un PC, d'un serveur ou d'un NAS QNAP en quelques minutes grâce à une installation simple
- **Carte d'extension Thunderbolt™ 3:** Transformez votre NAS en un NAS Thunderbolt™ 3
- **Carte d'extension M.2:** Ajoutez des SSD M.2 à votre NAS et à votre PC.
- **Carte d'extension USB:** Augmentez la vitesse de transfert USB avec une carte d'extension USB.
- **Carte d'extension Fibre Channel:** Ajoutez un NAS QNAP à votre environnement SAN Fibre Channel existant à un prix abordable.



Carte accélératrice de calcul

- **Accélérateur TPU Edge:** Tirez parti de l'accélération de l'IA à un prix abordable pour une reconnaissance d'image plus rapide sur votre NAS QNAP.
- **Carte accélératrice de calcul:** améliorez les performances pour répondre aux charges de travail les plus exigeantes.



Adaptateur de disque

- Adaptateur de disque SAS à SATA 6Gbps de 2,5 pouces
- Utiliser deux SSD NVMe PCIe M.2 dans une baie de lecteur SSD NVMe PCIe U.2 pour PC et NAS
- Adaptateur de disque SATA SSD 6Gbps de 2,5 pouces vers SAS 3,5 pouces
- Utilisez un SSD M.2 PCIe NVMe dans une baie pour SSD U.2 PCIe NVMe.
- Utilisez deux disques SATA de 2,5 pouces dans une seule baie pour disques SATA de 3,5 pouces avec support RAID.
- Utilisez deux disques SSD M.2 SATA dans une seule baie pour disques SATA de 2,5 pouces avec support RAID.



QNAP Product Lineup



Double contrôleur



NAS 100% flash



ES1686dc



ES2486dc



TS-h3088XU-RP



TS-h2490FU



TS-h1090FU



TDS-h2489FU



Solution NAS 10GbE



ES1686dc



ES2486dc



TS-h987XU



TS-h1887XU-RP



TS-h2287XU-RP



TS-h3087XU-RP



TS-432PXU / TS-432PXU-RP



TS-435XeU



TS-431XeU



TS-h1886XU-RP-R2



TS-i410X



TVS-h1288X



TVS-h1688X



Solution NAS 2,5GbE



TS-464eU



TS-864eU



TS-464U / TS-464U-RP



TS-1264U-RP



TS-873AeU



TS-855eU / TS-855eU-RP



TS-264



TS-464



TS-664



TS-AI642



TS-410E



TS-253E



TS-453E



TVS-675



TS-473A



TS-673A



Solution NAS Thunderbolt



TVS-h1288X



TVS-h1688X



TVS-472XT



TVS-672XT



TVS-872XT



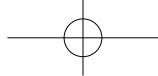
Cloud personnel



TS-431K



TS-364



Solution NAS 25GbE



TS-h1290FX



TS-h3088XU-RP



TS-h2490FU



TDS-h2489FU



TS-h1090FU



TS-h1290FX



TS-877XU-RP



TS-h1277XU-RP



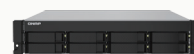
TS-h1677XU-RP



TS-h2477XU-RP



TS-1232PXU-RP



TS-832PXU / TS-832PXU-RP



TS-431X3



TS-431KX



TS-h973AX



TS-932PX



TS-832PX



TVS-472XT



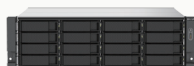
TVS-672XT



TVS-872XT



TS-1273AU-RP



TS-1673AU-RP



HS-264



TBS-464



TS-364-8G



TS-231P3



TS-431P3



TS-262



TS-462



TS-873A



TS-1655



TS-h686



TS-h886



TVS-h474



TVS-h674



TVS-h874



TS-262



TS-462



TS-133



TS-233



TS-433



HS-453DX

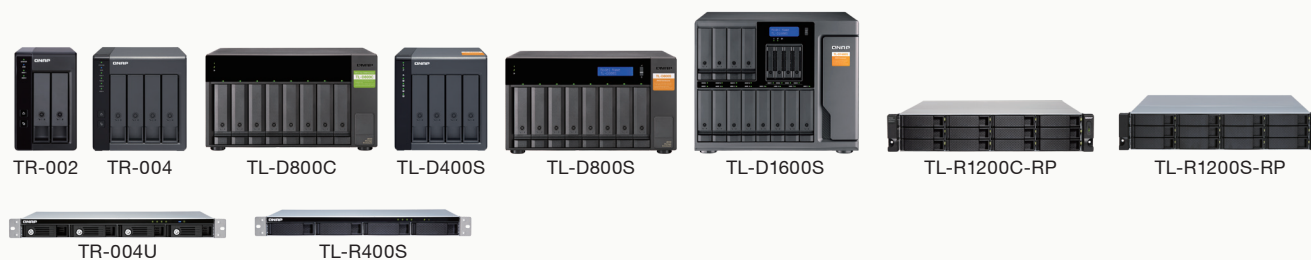


HS-264



TBS-464

Boîtiers externes (DAS)



Switches manageables et non-manageables



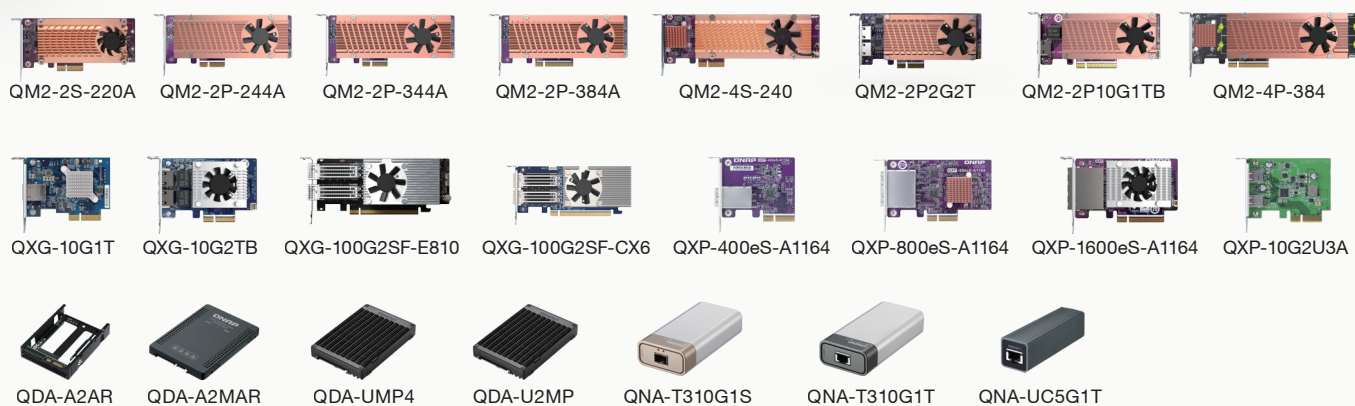
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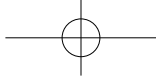


Solution SD-WAN et ADRA



Accessoires





TL-R1220Sep-RP



TL-R1620Sep-RP



TL-R1620Sdc



TL-R1200PES-RP



TL-R1600PES-RP



QSW-M408-4C



QSW-M408-2C



QSW-M408S



QSW-1108-8T



QSW-M2116P-2T2S



QSW-IM1200-8C



QSW-1105-5T



QSW-M2106R-2S2T



QSW-M2106PR-2S2T



QSW-M2108R-2C

Surveillance et vidéo intelligente



QVP-41B



QVP-63A



QVP-63B



QVP-85B



KoiBox



QuCPE-7012



QGD-1600P



QGD-1602P-C3558



QGD-1602P-C3758



QGD-1600



QGD-1602-C3558



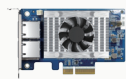
QGD-1602-C3758



QGD-3014-16PT



QXG-25G2SF-CX6



QXG-10G2T-X710



QXG-2G1T-I225



QXG-2G2T-I225



QXG-2G4T-I225



QXG-5G1T-111C



QXG-5G2T-111C



QXG-5G4T-111C



QXP-16G2FC



QXP-32G2FC



QXP-T32P



QXP-1620S-B3616W



QXP-3X8PES



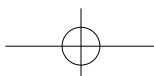
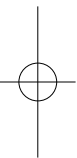
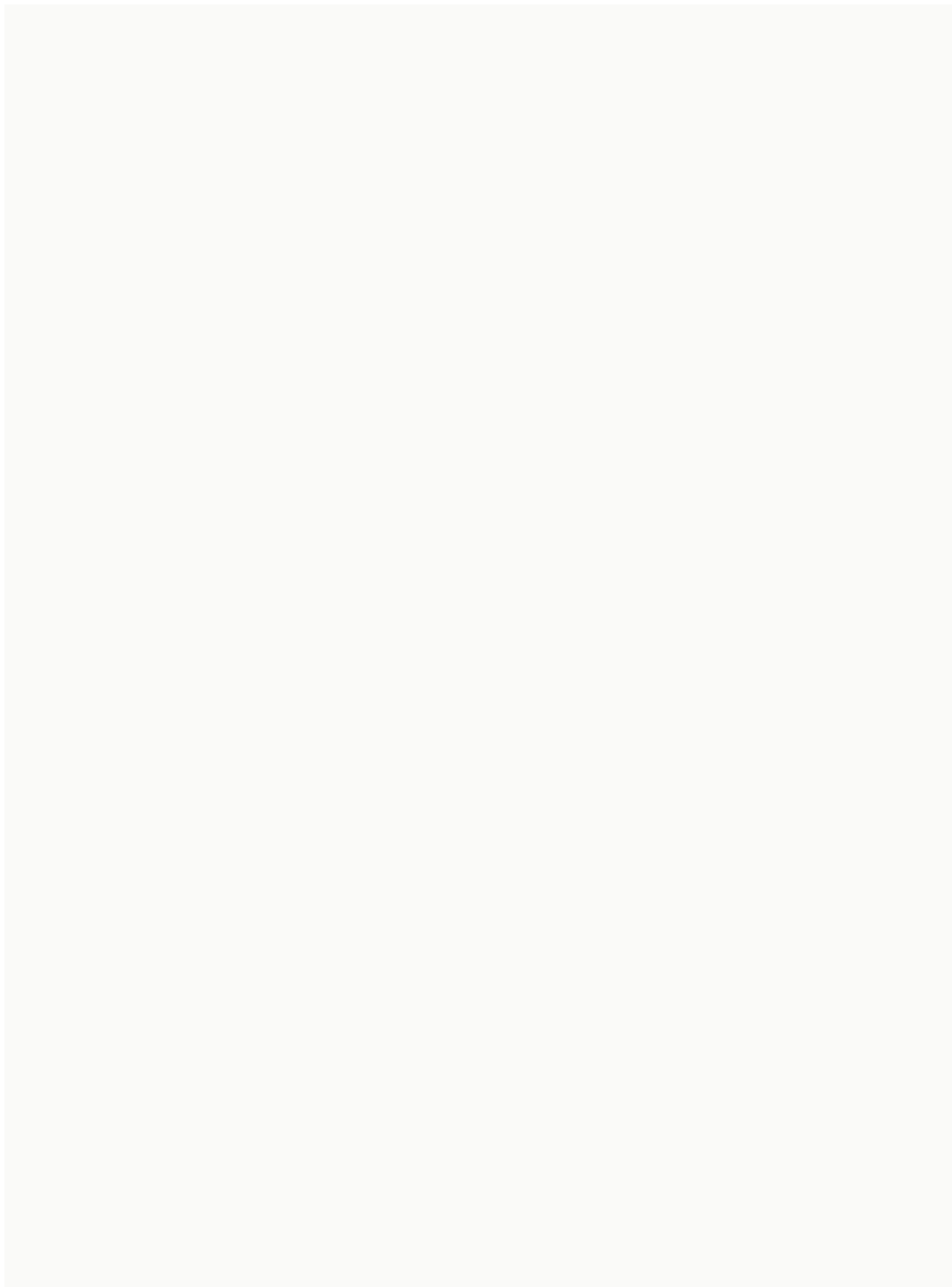
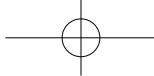
QXP-3X4PES



QXP-W6-AX200



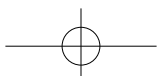
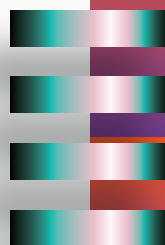
QDA-SA3






Double contrôleur

Systeme d'exploitation
haute performance
basé sur ZFS
avec plus de fiabilité



	ES1686dc			
				
Model	ES1686dc-2142IT-128G	ES1686dc-2142IT-96G	ES1686dc-2123IT-64G	
Operating System	QES			
CPU	Intel® Xeon® D-2142IT 8-core 1.90 GHz processor (burst up to 3.0 GHz) per controller		Intel® Xeon® D-2123IT 4-core 2.20 GHz processor (burst up to 3.0 GHz) per controller	
CPU Architecture	64-bit x86			
Graphic Processors	-			
Floating Point Unit	Yes			
Encryption Engine	Yes (AES-NI)			
Hardware-accelerated Transcoding	-			
System Memory	64 GB RDIMM DDR4 ECC (4 x 16 GB) per controller	48 GB RDIMM DDR4 ECC (4 x 4 GB+4 x 8GB) per controller	32 GB RDIMM DDR4 ECC (4x 8 GB) per controller	
Maximum Memory	512 GB (8 x 64GB)			
Memory Slot	8 x R-DIMM/LR-DIMM DDR4 IMPORTANT: You can only use one type of dual in-line memory module (DIMM) at a time. Do not use registered DIMM (RDIMM) with load-reduction DIMM (LRDIMM) memory.			
Drive Bay	16 x 3.5-inch SAS 12Gb/s, backward-compatible to SAS 6Gb/s			
Hot-swappable	Yes			
M.2 Slot	-			
SSD Cache Acceleration Support	Yes Read cache only			
Gigabit Ethernet Port (RJ45)	3 for each controller (one for remote management)			
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-			
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-			
10 Gigabit Ethernet Port	4 x 10GbE SFP+ for each controller			
25 Gigabit Ethernet Port	-			
Thunderbolt Port	-			
PCIe Slot	2 Slot 1: PCIe Gen 3 x8 (CPU) Slot 2: PCIe Gen 3 x8 (CPU)			
USB 2.0 port	-			
USB 3.2 Gen 1 port	2 per each controller			
USB 3.2 Gen 2 (10Gbps) Port	-			
HDMI Output	-			
Form Factor	3U Rackmount			
Dimensions (HxWxD mm)	132 x 483.05 x 630.62			
Net Weight (kg)	25.83			
Operating temperature	0 - 40 °C (32°F - 104°F)			
Power Supply Unit	Redundant/ Hot Swap Power Vin:90~264VAC;770W			
Power Consumption (w): Operating Mode, Typical	500.87			
Fan	Hot-swappable fan module (60*60*38mm; 16000RPM/12v/2.8A x 3)			
Kensington Security Slot	-			



ES2486dc



ES2486dc-2142IT-128G

ES2486dc-2142IT-96G

QES

Intel® Xeon® D-2142IT 8-core 1.90 GHz processor, up to 3.0 GHz

64-bit x86

-

Yes

Yes (AES-NI)

-

64 GB RDIMM DDR4 ECC (4 x 16 GB) per controller

48 GB RDIMM DDR4 ECC (4 x 4 GB+4 x 8GB) per controller

512 GB (8 x 64GB)

8 x R-DIMM/LR-DIMM DDR4

IMPORTANT: You can only use one type of dual in-line memory module (DIMM) at a time.
Do not use registered DIMM (RDIMM) with load-reduction DIMM (LRDIMM) memory.

24 x 2.5-inch

SAS 12Gb/s, backward-compatible to SAS 6Gb/s

Yes

-

Yes

Read cache only

3 for each controller (one for remote management)

-

-

4 x 10GbE SFP+ for each controller

-

-

2

Slot 1: PCIe Gen 3 x8 (CPU)

Slot 2: PCIe Gen 3 x8 (CPU)

-

2 per each controller

-

-

2U Rackmount

88.3 x 483 x 545.1

27.41

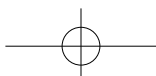
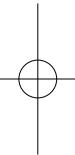
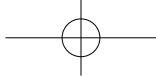
0 - 40 °C (32°F - 104°F)

Redundant/ Hot Swap Power Vin:90~264VAC;700W

579.59

Hot-swappable fan module (60*60*38mm; 16000RPM/12v/2.8A x 3)

-






NAS 100% flash

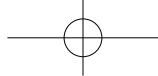
Stockage 100% flash.
Performance ultime





NAS 100% flash

	TS-h3088XU-RP	
		
Model	TS-h3088XU-RP-W1270-64G	TS-h3088XU-RP-W1250-32G
Operating System	QTS / QuTS hero	
CPU	Intel® Xeon® W-1270 8-core/16-thread processor, up to 5.0 GHz	Intel® Xeon® W-1250 6-core/12-thread processor, up to 4.7 GHz
CPU Architecture	64-bit x86	
Graphic Processors	-	
Floating Point Unit	Yes	
Encryption Engine	Yes (AES-NI)	
Hardware-accelerated Transcoding	Yes	
System Memory	64 GB UDIMM DDR4 ECC (4 x 16 GB)	32 GB UDIMM DDR4 ECC (2 x 16 GB)
Maximum Memory	128 GB (4 x 32 GB)	
Memory Slot	4 x Long-DIMM DDR4	
Drive Bay	Front: 24 x 2.5-inch SATA 6Gb/s, 3Gb/s Rear: 6 x 2.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	
M.2 Slot	-	
SSD Cache Acceleration Support	Yes	
Gigabit Ethernet Port (RJ45)	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	4	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	Optional via a PCIe adapter	
25 Gigabit Ethernet Port	2 x 25GbE SFP28 SmartNIC port	
Thunderbolt Port	-	
PCIe Slot	3 Slot 1: PCIe Gen3 x8 or x4 Slot 2: PCIe Gen3 x4 Slot 3: PCIe Gen3 x4 *Slot 1 is preinstalled with a 25GbE network adapter. Please reserve this slot for the 25GbE adapter for the best performance. **Slot 1 provides the width of PCIe Gen3 x8 when Slot 2 is not in use, and provides the width of PCIe Gen3 x4 when Slot 2 is in use.	
USB 2.0 port	-	
USB 3.2 Gen 1 port	-	
USB 3.2 Gen 2 (10Gbps) Port	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	
HDMI Output	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	
Form Factor	Rackmount	
Dimensions (HxWxD mm)	88.3 x 481.07 x 515.02	
Net Weight (kg)	12.26	
Operating temperature	0 - 40°C (32°F - 104°F)	
Power Supply Unit	550W(x2), 100-240V	
Power Consumption (w): Operating Mode, Typical	261.81	
Fan	3 x 60mm, 12VDC	
Kensington Security Slot	-	



TS-h2490FU



TS-h2490FU-7302P-128G

TS-h2490FU-7232P-64G

QTS / QuTS hero

AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz

AMD EPYC™ 7232P 8-core/16-thread processor, up to 3.2 GHz

64-bit x86

-

-

Yes (AES-NI)

-

128 GB RDIMM DDR4 ECC (8 x 16 GB)

64 GB RDIMM DDR4 ECC (8 x 8 GB)

4 TB (16 x 256 GB)

16 x Long-DIMM DDR4

24 x 2.5-inch U.2 PCIe NVMe

Yes

-

Yes

-

2 (also support 10M)

-

-

4 x 25GbE SFP28 SmartNIC port

2 x 25GbE SFP28 SmartNIC port

-

5
Slot 1: PCIe Gen4 x4
Slot 2: PCIe Gen4 x8 or x4
Slot 3: PCIe Gen4 x4
Slot 4: PCIe Gen4 x8
Slot 5: PCIe Gen4 x16 or x8

*Slot 4 and Slot 5 are preinstalled with 25GbE network adapters. Please reserve these slots for the 25GbE adapters for the best performance.

**Slot 2 provides the width of PCIe Gen4 x8 when Slot 3 is not in use, and provides the width of PCIe Gen4 x4 when Slot 3 is in use.

***Slot 5 provides the width of PCIe Gen4 x16 when Slot 4 is not in use, and provides the width of PCIe Gen4 x8 when Slot 4 is in use.

5
Slot 1: PCIe Gen4 x4
Slot 2: PCIe Gen4 x8 or x4
Slot 3: PCIe Gen4 x4
Slot 4: PCIe Gen4 x8
Slot 5: PCIe Gen4 x16 or x8

*Slot 5 is preinstalled with a 25GbE network adapter.

**Slot 2 provides the width of PCIe Gen4 x8 when Slot 3 is not in use, and provides the width of PCIe Gen4 x4 when Slot 3 is in use.

***Slot 5 provides the width of PCIe Gen4 x16 when Slot 4 is not in use, and provides the width of PCIe Gen4 x8 when Slot 4 is in use.

-

2

-

-

Rackmount

88.3 x 480.97 x 510.23

15.2

0 - 35°C (32°F - 95°F)

1100W PSU(x2), 200-240Vac,
Max Wattage:
1100W@200-240Vac
850W@100-240Vac

277.64

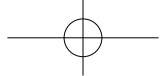
4 x 60mm, 12VDC

-

TS-h1090FU



Model	TS-h1090FU-7302P-256G (By Request)	TS-h1090FU-7302P-128G	TS-h1090FU-7232P-64G
Operating System	QTS / QuTS hero		
CPU	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz		AMD EPYC™ 7232P/7252 8-core/16-thread processor, up to 3.2 GHz
CPU Architecture	64-bit x86		
Graphic Processors	-		
Floating Point Unit	-		
Encryption Engine	Yes (AES-NI)		
Hardware-accelerated Transcoding	-		
System Memory	256 GB RDIMM DDR4 ECC (8 x 32 GB)	128 GB RDIMM DDR4 ECC (8 x 16 GB)	64 GB RDIMM DDR4 ECC (8 x 8 GB)
Maximum Memory	1 TB+ (12 x 128 GB)		
Memory Slot	12 x RDIMM DDR4		
Drive Bay	10 x 2.5-inch U.2 PCIe NVMe / SATA 6Gbps		
Hot-swappable	Yes		
M.2 Slot	-		
SSD Cache Acceleration Support	Yes		
Gigabit Ethernet Port (RJ45)	-		
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)		
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter		
10 Gigabit Ethernet Port	Optional via a PCIe adapter		
25 Gigabit Ethernet Port	2 x 25GbE SFP28 SmartNIC port		
Thunderbolt Port	-		
PCIe Slot	2 Slot 1: PCIe Gen4 x16 Slot 2: PCIe Gen4 x16 For low profile PCIe cards only.		
USB 2.0 port	-		
USB 3.2 Gen 1 port	3		
USB 3.2 Gen 2 (10Gbps) port	-		
HDMI Output	-		
Form Factor	Rackmount		
Dimensions (HxWxD mm)	44 x 430 x 580		
Net Weight (kg)	10.42		
Operating Temperature	0 - 40 °C (32°F - 104°F)		
Power Supply Unit	550W PSU (x2), AC 100-240 V		
Power Consumption (w): Operating Mode, Typical	157.97		
Fan	5 x 60mm, 12VDC		
Kensington Security Slot	-		



TS-h1290FX



TS-h1290FX-7302P-256G (By Request)

TS-h1290FX-7302P-128G

TS-h1290FX-7232P-64G

QTS / QuTS hero

AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz

AMD EPYC™ 7232P/7252 8-core/
16-thread processor, up to 3.2 GHz

64-bit x86

-

-

Yes (AES-NI)

-

256 GB RDIMM DDR4 ECC (8 x 32 GB)

128 GB RDIMM DDR4 ECC (8 x 16 GB)

64 GB RDIMM DDR4 ECC (8 x 8 GB)

1 TB (8 x 128 GB)

8 x RDIMM DDR4

12 x 2.5-inch

Yes

-

Yes

-

2 (2.5G/1G/100M/10M)

Optional via a PCIe adapter

Optional via a PCIe adapter

2 x 25GbE SFP28 SmartNIC port

-

4

Slot 1: PCIe Gen 4 x16
Slot 2: PCIe Gen 4 x16
Slot 3: PCIe Gen 4 x8
Slot 4: PCIe Gen 4 x16

-

3

-

-

Tower

150 x 368 x 362

8.99


0 - 40 °C (32°F - 104°F)

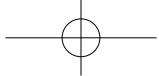
750W, 100-240V

134.41

2 x 92mm, 12VDC

Yes

	TDS-h2489FU		
			
Model	TDS-h2489FU-4314-1TB (By Request)	TDS-h2489FU-4314-512G (By Request)	TDS-h2489FU-4314-256G
Operating System	QTS / QuTS hero		
CPU	2 x Intel® Xeon® Silver 4314 16-core/32-thread processor, up to 3.4 GHz		2 x Intel® Xeon® Silver 4314 16-core/32-thread processor, up to 3.4 GHz
CPU Architecture	64-bit x86		
Graphic Processors	-		
Floating Point Unit	-		
Encryption Engine	Yes (AES-NI)		
Hardware-accelerated Transcoding	-		
System Memory	1 TB RDIMM DDR4 ECC (32 x 32 GB)	512 GB RDIMM DDR4 ECC (16 x 32 GB)	256 GB RDIMM DDR4 ECC (8 x 32 GB)
Maximum Memory	-		
Memory Slot	32 x RDIMM DDR4 ECC (16 x slots per socket)		
Drive Bay	24 x 2.5-inch		
Hot-swappable	Yes		
M.2 Slot	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA 6Gb/s Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA 6Gb/s		
SSD Cache Acceleration Support	Yes		
Gigabit Ethernet Port (RJ45)	-		
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	4 (2.5G/1G/100M/10M)		
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter		
10 Gigabit Ethernet Port	Optional via a PCIe adapter		
25 Gigabit Ethernet Port	2 x 25GbE SFP28 SmartNIC port		
Thunderbolt Port	-		
PCIe Slot	2 Slot 1: PCIe Gen4 x16 Slot 2: PCIe Gen4 x8 *Slot 2 is preinstalled with a 25GbE network adapter. **Slot 1 provides the width of PCIe Gen4 x16 when Slot 2 is not in use, and provides the width of PCIe Gen4 x8 when Slot 2 is in use.		
USB 2.0 port	-		
USB 3.2 Gen 1 port	4		
USB 3.2 Gen 2 (10Gbps) port	-		
HDMI Output	-		
Form Factor	Rackmount		
Dimensions (HxWxD mm)	88.3 x 446.2 x 713.2		
Net Weight (kg)	21.31		
Operating Temperature	0 - 35°C (32°F - 95°F)		
Power Supply Unit	1200W PSU(x2), 100-240Vac Max Wattage: 1200W@200-240Vac 1000W@100-127Vac		
Power Consumption (w): Operating Mode, Typical	467.59		
Fan	6 x 60mm, 12VDC		
Kensington Security Slot	-		



TDS-h2489FU



TDS-h2489FU-4314-128G

TDS-h2489FU-4309Y-64G

QTS / QuTS hero

2 x Intel® Xeon® Silver 4314 16-core/32-thread processor, up to 3.4 GHz

2 x Intel® Xeon® Silver 4309Y 8-core/16-thread processor, up to 3.6 GHz

64-bit x86

-

-

Yes (AES-NI)

-

128 GB RDIMM DDR4 ECC (8 x 16 GB)

64 GB RDIMM DDR4 ECC (8 x 8 GB)

-

32 x RDIMM DDR4 ECC (16 x slots per socket)

24 x 2.5-inch

Yes

2

Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA 6Gb/s
Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA 6Gb/s

Yes

-

4 (2.5G/1G/100M/10M)

Optional via a PCIe adapter

Optional via a PCIe adapter

2 x 25GbE SFP28 SmartNIC port

-

2

Slot 1: PCIe Gen4 x16
Slot 2: PCIe Gen4 x8

*Slot 2 is preinstalled with a 25GbE network adapter.

**Slot 1 provides the width of PCIe Gen4 x16 when Slot 2 is not in use, and provides the width of PCIe Gen4 x8 when Slot 2 is in use.

-

4

-

-

Rackmount

88.3 x 446.2 x 713.2

21.31

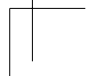
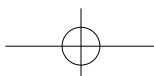
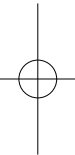
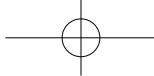
0 - 35°C (32°F - 95°F)

1200W PSU(x2), 100-240Vac
Max Wattage:
1200W@200-240Vac
1000W@100-127Vac

467.59

6 x 60mm, 12VDC

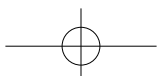
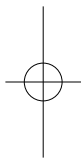
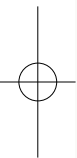
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Solution NAS 10GbE



Connectivité 10GbE :
L'avenir, c'est maintenant!





	TS-431XeU		TS-435XeU	
				
Model	TS-431XeU-2G	TS-431XeU-8G	TS-435XeU-4G	
Operating System	QTS		QTS	
CPU	AnnapurnaLabs Alpine AL314 32-bit ARM® Cortex-A15 quad-core 1.7GHz processor		Marvell OCTEON TX2™ CN9130 / CN9131 ARMv8 Cortex-A72 4-core 2.2GHz processor	
CPU Architecture	32-bit ARM		64-bit ARM	
Graphic Processors	-		-	
Floating Point Unit	Yes		Yes	
Encryption Engine	Yes		Yes	
Hardware-accelerated Transcoding	-		-	
System Memory	2 GB SODIMM DDR3 (1 x 2 GB)	8 GB SODIMM DDR3 (1 x 8 GB)	4 GB SODIMM DDR4 (1 x 4GB)	
Maximum Memory	8 GB (1 x 8 GB)		32 GB (1 x 32 GB)	
Memory Slot	1 x SO-DIMM DDR3		1 x SODIMM DDR4	
Drive Bay	4 x 3.5-inch SATA 6Gb/s, 3Gb/s		4 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes		Yes	
M.2 slot	-		2 x M.2 2280 PCIe Gen 3 x1 slots	
SSD Cache Acceleration Support	Yes		Yes	
Gigabit Ethernet Port (RJ45)	2		-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-		2 (2.5G/1G/100M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-		-	
10 Gigabit Ethernet Port	1 x 10GbE SFP+		2 x 10GbE SFP+	
25 Gigabit Ethernet Port	-		-	
Thunderbolt Port	-		-	
PCIe Slot	-		2	
USB 2.0 port	-		2	
USB 3.2 Gen 1 port	4		-	
USB 3.2 Gen 2 (10Gbps) Port	-		-	
HDMI Output	-		1U Rackmount	
Form Factor	1U Rackmount		-	
Dimensions (HxWxD mm)	44 x 439 x 291		43.3 × 430 × 292.12	
Net Weight (kg)	4.15		4.17	
Operating temperature	0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
Power Supply Unit	Open-frame 100W, Input: 100V-240V ~ / 3.5A, 50Hz-60Hz		100W PSU, 100-240V	
Power Consumption (w): Operating Mode, Typical	30.99		30.878 W	
Fan	System fan: 3 x 40mm, 12VDC		3 x 40mm, 12VDC	
Kensington Security Slot	Yes		Yes	





	TVS-h1288X	TVS-h1688X
		
	TVS-h1288X-W1250-16G	TVS-h1688X-W1250-32G
	QTS / QuTS hero	QTS / QuTS hero
	Intel® Xeon® W-1250 6-core/12-thread processor, up to 4.7 GHz	Intel® Xeon® W-1250 6-core/12-thread processor, up to 4.7 GHz
	64-bit x86	64-bit x86
	Intel® UHD Graphics P630	Intel® UHD Graphics P630
	Yes	Yes
	Yes (AES-NI)	Yes (AES-NI)
	Yes	Yes
	16 GB ECC UDIMM DDR4 (2 x 8 GB)	32GB ECC UDIMM DDR4 (2 x 16 GB)
	128 GB (4 x 32 GB)	128 GB (4 x 32 GB)
	4 x Long-DIMM DDR4	4 x Long-DIMM DDR4
	8 x 3.5-inch SATA 6Gb/s, 3Gb/s + 4 x 2.5-inch SATA 6Gb/s, 3Gb/s	12 x 3.5-inch SATA 6Gb/s, 3Gb/s + 4 x 2.5-inch SATA 6Gb/s, 3Gb/s
	Yes	Yes
	2 x M.2 22110/2280 NVMe PCIe Gen3 x4 slots	2 x M.2 22110/2280 NVMe PCIe Gen3 x4 slots
	Yes	Yes
	-	-
	4 (also support 10M)	4 (also support 10M)
	Optional via a PCIe adapter	Optional via a PCIe adapter
	2 x 10GBASE-T (10G/1G)	2 x 10GBASE-T (10G/1G)
	Optional via a PCIe adapter	Optional via a PCIe adapter
	Optional via the QXP-T32P 2-port Thunderbolt 3 PCIe adapter	Optional via the QXP-T32P 2-port Thunderbolt 3 PCIe adapter
	3 Slot 1: PCIe Gen3 x8 Slot 2: PCIe Gen3 x4 Slot 3: PCIe Gen3 x4 *Slot 1 is preinstalled with a 2-port 10GbE network adapter.	3 Slot 1: PCIe Gen3 x8 Slot 2: PCIe Gen3 x4 Slot 3: PCIe Gen3 x4 *Slot 1 is preinstalled with a 2-port 10GbE network adapter.
	-	-
	-	-
	2 x Type-C 3 x Type-A	2 x Type-C 4 x Type-A
	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)
	Tower	Tower
	234.6 x 369.9 x 319.8	303.84 x 369.89 x 319.8
	11.27	13.41
	0 - 40°C (32°F - 104°F)	0 - 40°C (32°F - 104°F)
	550W PSU, 100~240V	550W PSU, 100~240V
	97.492	108.67
	System fan: 3 x 80mm, 12VDC CPU fan: 2 x 97mm, 12VDC	System fan: 3 x 80mm, 12VDC CPU fan: 2 x 97mm, 12VDC
	Yes	Yes




	TS-h987XU-RP	TS-h1887XU-RP	
			
Model	TS-h987XU-RP-E2334-16G	TS-h1887XU-RP-E2334-16G	TS-h1887XU-RP-E2336-32G
Operating System	QTS / QuTS hero	QTS / QuTS hero	
CPU	Intel® Xeon® E-2334 4C 8T 3.4GHz, up to 4.8GHz	Intel® Xeon® E-2334 4C 8T 3.4GHz, up to 4.8GHz	Intel® Xeon® E-2336 6C 12T 2.9GHz, up to 4.8GHz
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	Optional via a PCIe adapter	Optional via a PCIe adapter	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	-	-	
System Memory	16 GB ECC DDR4 (1 x 16 GB)	16 GB ECC DDR4 (1 x 16 GB)	32 GB ECC DDR4 (2 x 16 GB)
Maximum Memory	128GB (4 x 32 GB)	128GB (4 x 32 GB)	
Memory Slot	4 x Long-DIMM DDR4	4 x Long-DIMM DDR4	
Drive Bay	9 (4 x 3.5-inch SATA + 5 x 2.5-inch U.2 PCIe / SATA) 2.5-inch bays: #1: PCIe Gen3 x2 & SATA 6Gbps #2: PCIe Gen3 x2 & SATA 6Gbps #3: PCIe Gen3 x2 & SATA 6Gbps #4: PCIe Gen4 x4 & SATA 6Gbps #5: PCIe Gen4 x4 & SATA 6Gbps	18 (12 x 3.5-inch SATA + 6 x 2.5-inch SATA)	
Hot-swappable	Yes	Yes	
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M)	2 (2.5G/1G/100M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	2 x 10GBASE-T (10G/5G/2,5G/1G/100M)	2 x 10GBASE-T (10G/5G/2,5G/1G/100M)	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
Thunderbolt Port	-	-	
PCIe Slot	1 x Gen4 x8	3 (2 x Gen4 x4 + 1 x Gen 4 x8)	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	-	-	
USB 3.2 Gen 2 (10Gbps) port	4 x Type-A USB 3.2 Gen 2 5V/1A 10Gbps	4 x Type-A USB 3.2 Gen 2 5V/1A 10Gbps	
HDMI Output	-	Optional via a PCIe adapter	
Form Factor	1U Rackmount	2U Rackmount	
Dimensions (HxWxD mm)	43.3 x 430 x 479	88.6 x 432 x 511.2	
Net Weight (kg)	8.43	13	
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	2 x 300W PSU	2 x 550W PSU	
Power Consumption (w): Operating Mode, Typical	120.58	148.94	
Fan	4 x 40mm, 12VDC	4 x 60mm, 12VDC	
Kensington Security Slot	-	-	





TS-h2287XU-RP		TS-h3087XU-RP
		
TS-h2287XU-RP-E2336-32G	TS-h2287XU-RP-E2378-64G	TS-h3087XU-RP-E2378-64G
QTS / QuTS hero		QTS / QuTS hero
Intel® Xeon® E-2336 6C 12T 2.9GHz, up to 4.8GHz	Intel® Xeon® E-2378 8C 16T 2.6GHz, up to 4.8GHz	Intel® Xeon® E-2378 8C 16T 2.6GHz, up to 4.8GHz
64-bit x86		64-bit x86
Optional via a PCIe adapter		Optional via a PCIe adapter
Yes		Yes
Yes (AES-NI)		Yes (AES-NI)
-		-
32 GB ECC DDR4 (2 x 16 GB)	64 GB ECC DDR4 (4 x 16 GB)	64 GB ECC DDR4 (4 x 16 GB)
128GB (4 x 32 GB)		128GB (4 x 32 GB)
4 x Long-DIMM DDR4.		4 x Long-DIMM DDR4
22 (16 x 3.5-inch SATA + 6 x 2.5-inch SATA)		30 (24 x 3.5-inch SATA + 6 x 2.5-inch SATA)
Yes		Yes
Optional via a QM2 PCIe adapter		Optional via a QM2 PCIe adapter
Yes		Yes
-		-
2 (2.5G/1G/100M)		2 (2.5G/1G/100M)
Optional via a PCIe adapter		Optional via a PCIe adapter
2 x 10GBASE-T (10G/5G/2.5G/1G/100M)		2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
Optional via a PCIe adapter		Optional via a PCIe adapter
-		-
3 (2 x Gen4 x4 +1 x Gen 4 x8)		3 (2 x Gen4 x4 +1 x Gen 4 x8)
-		-
-		-
4 x Type-A USB 3.2 Gen 2 5V/1A 10Gbps		4 x Type-A USB 3.2 Gen 2 5V/1A 10Gbps
Optional via a PCIe adapter		Optional via a PCIe adapter
3U Rackmount		4U Rackmount
131.3 x 482.2 x 550.8		176.2 x 441.6 x 630.2
15.64		21.78
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)
2 x 550W PSU		2 x 800W PSU
228		219.03
3 x 60mm + 1 x 80mm, 12VDC		4 x 80mm, 12VDC
-		-



	TS-877XU-RP	TS-h1886XU-RP R2	
			
Model	TS-877XU-RP-3600-8G	TS-h1886XU-RP-R2-D1622-32G	
Operating System	QTS	QTS / QuTS hero	
CPU	AMD Ryzen™ 5 3600 6-core/12-thread processor, burst up to 4.2 GHz	Intel® Xeon® D-1622 4-core processor, burst up to 3.2 GHz	
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	-	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	-	-	
System Memory	8 GB UDIMM DDR4 (2 x 4GB)	32 GB UDIMM DDR4 ECC (2 x 16GB)	
Maximum Memory	64 GB (4 x 16 GB)	128 GB (4 x 32 GB)	
Memory Slot	4 x Long-DIMM DDR4	4 x UDIMM DDR4	
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	Front: 12 x 3.5-inch SATA 6Gb/s, 3Gb/s Rear: 6 x 2.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 slot	-		
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	2		
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	Optional via a PCIe adapter	4 (2.5G/1G/100M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	2 x 10GbE SFP+ SmartNIC port	2 x 10GbE SFP+ SmartNIC port Pre-installed with a 10GbE PCIe adapter	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
Thunderbolt Port	-	-	
PCIe Slot	4 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x8 or PCIe Gen 3 x4* Slot 3: PCIe Gen 3 x4 Slot 4: PCIe Gen 3 x8 or PCIe Gen 3 x4** *Slot 2 provides the width of PCIe Gen.3 x8 when Slot 1 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 1 is in use. **Slot 3 provides the width of PCIe Gen.3 x8 when Slot 4 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 4 is in use.	3 Slot 1: PCIe Gen 2 x4 (x8 Slot) Slot 2: PCIe Gen 3 x4 Slot 3: PCIe Gen 3 x8 or x4 (x8 Slot) *Slot 3 is preinstalled with a 10GbE network adapter. **Slot 3 provides the width of PCIe Gen 3 x8 when Slot 2 is not in use, and provides the width of PCIe Gen 3 x4 when Slot 2 is in use.	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	4	2	
USB 3.2 Gen 2 (10Gbps) Port	1 x Type-C USB 3.2 Gen 2 10Gbps 1 x Type-A USB 3.2 Gen 2 10Gbps	-	
HDMI Output	Optional via a PCIe adapter	-	
Form Factor	2U Rackmount	Rackmount	
Dimensions (HxWxD mm)	88.3 x 482 x 562	88.3 x 482 x 549.7	
Net Weight (kg)	13.31	12.73	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	300W (x2), 100-240V	550W(x2), 100-240V	
Power Consumption (w): Operating Mode, Typical	86.04	117.92	
Fan	System fan: 2 x 70mm, 12VDC	System fan: 3 x 60mm, 12VDC	
Kensington Security Slot	-	-	





	TVS-472XT	TVS-672XT	TVS-872XT
			
	TVS-472XT-i3-4G	TVS-672XT-i3-8G	TVS-872XT-i5-16G
	QTS / QuTS hero	QTS / QuTS hero	QTS / QuTS hero
	Intel® Core™ i3-8100T 4-core/4-thread 3.1 GHz Processor	Intel® Core™ i3-8100T 4-core/4-thread 3.1 GHz Processor	Intel® Core™ i5-8400T 6-core/6-thread Processor, burst up to 3.3 GHz
	64-bit x86	64-bit x86	64-bit x86
	Intel® UHD Graphics 630	Intel® UHD Graphics 630	Intel® UHD Graphics 630
	Yes	Yes	Yes
	Yes (AES-NI)	Yes (AES-NI)	Yes (AES-NI)
	Yes	Yes	Yes
	4 GB SODIMM DDR4 (1 x 4 GB)	8 GB SODIMM DDR4 (2 x 4 GB)	16 GB SODIMM DDR4 (2 x 8 GB)
	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4
	4 x 3.5-inch SATA 6Gb/s, 3Gb/s	6 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s
	Yes	Yes	Yes
	2 x M.2 2280 PCIe Gen3 x2 slots	2 x M.2 2280 PCIe Gen3 x2 slots	2 x M.2 2280 PCIe Gen3 x2 slots
	Yes	Yes	Yes
	2	2	2
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	2 (Thunderbolt™ 3)	2 (Thunderbolt™ 3)	2 (Thunderbolt™ 3)
	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH) Slot 1 is preinstalled with a Thunderbolt 3 adapter	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH) Slot 1 is preinstalled with a Thunderbolt 3 adapter	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH) Slot 1 is preinstalled with a Thunderbolt 3 adapter
	-	-	-
	1	1	1
	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps
	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)
	Tower	Tower	Tower
	188.2 x 199.3 x 279.6	188.2 x 264.3 x 279.6	188.2 x 329.3 x 279.6
	5.4	6.553	7.06
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	250W, 100-240V	250W, 100-240V	250W, 100-240V
	37.32	45.6	65.03
	System fan: 1 x 120mm, 12VDC CPU fan: 2 x 60mm blower fan	System fan: 2 x 92mm, 12VDC CPU fan: 2 x 60mm blower fan	System fan: 2 x 120mm, 12VDC CPU fan: 2 x 60mm blower fan
	Yes	Yes	Yes



	TS-h1277XU-RP		TS-h1677XU-RP
			
Model	TS-h1277XU-RP-3700X-128G	TS-h1277XU-RP-3700X-32G	TS-h1677XU-RP-3700X-32G
Operating System	QTS / QuTS hero		QTS / QuTS hero
CPU	AMD Ryzen™ 7 3700X 8-core/ 16-thread processor, burst up to 4.4 GHz	AMD Ryzen™ 7 3700X 8-core/ 16-thread processor, burst up to 4.4 GHz	AMD Ryzen™ 7 3700X 8-core/16-thread processor, burst up to 4.4 GHz
CPU Architecture	64-bit x86		64-bit x86
Graphic Processors	-		-
Floating Point Unit	Yes		Yes
Encryption Engine	Yes (AES-NI)		Yes (AES-NI)
Hardware-accelerated Transcoding	-		-
System Memory	128 GB UDIMM DDR4 (4 x 32GB)	32 GB UDIMM DDR4 (2 x 16GB)	32 GB UDIMM DDR4 (2 x 16GB)
Maximum Memory	128 GB (4 x 32 GB)		128 GB (4 x 32 GB)
Memory Slot	4 x Long-DIMM DDR4		4 x Long-DIMM DDR4
Drive Bay	12 x 3.5-inch SATA 6Gb/s, 3Gb/s		16 x 3.5-inch SATA 6Gb/s, 3Gb/s
Hot-swappable	Yes		Yes
M.2 slot	-		-
SSD Cache Acceleration Support	Yes		Yes
Gigabit Ethernet Port (RJ45)	2		2
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	Optional via a PCIe adapter		Optional via a PCIe adapter
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter		Optional via a PCIe adapter
10 Gigabit Ethernet Port	2 x 10GbE SFP+ SmartNIC port, 2 x 10GBase-T port		2 x 10GbE SFP+ SmartNIC port
25 Gigabit Ethernet Port	Optional via a PCIe adapter		Optional via a PCIe adapter
Thunderbolt Port	-		-
PCIe Slot	4 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x8 or PCIe Gen 3 x4* Slot 3: PCIe Gen 3 x4 Slot 4: PCIe Gen 3 x8 or PCIe Gen 3 x4** *Slot 2 provides the width of PCIe Gen.3 x8 when Slot 1 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 1 is in use. **Slot 3 provides the width of PCIe Gen.3 x8 when Slot 4 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 4 is in use. ***PCIe slot 4 is preinstalled with a 10GbE network adapter		4 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x8 or PCIe Gen 3 x4* Slot 3: PCIe Gen 3 x4 Slot 4: PCIe Gen 3 x8 or PCIe Gen 3 x4** *Slot 2 provides the width of PCIe Gen.3 x8 when Slot 1 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 1 is in use. **Slot 3 provides the width of PCIe Gen.3 x8 when Slot 4 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 4 is in use.
USB 2.0 port	-		-
USB 3.2 Gen 1 port	4		4
USB 3.2 Gen 2 (10Gbps) Port	1 x Type-C USB 3.2 Gen 2 10Gbps 1 x Type-A USB 3.2 Gen 2 10Gbps		1 x Type-C USB 3.2 Gen 2 10Gbps 1 x Type-A USB 3.2 Gen 2 10Gbps
HDMI Output	-		-
Form Factor	2U Rackmount		3U Rackmount
Dimensions (HxWxD mm)	88.3 x 482 x 562		130 x 481 x 573.5
Net Weight (kg)	13.73		15.26
Operating temperature	0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)
Power Supply Unit	300W (x2), 100-240V		500W(x2), 100-240V
Power Consumption (w): Operating Mode, Typical	106.66		136.45
Fan	System fan: 2 x 70mm, 12VDC		System fan: 4 x 92mm, 12VDC
Kensington Security Slot	-		-





TS-h2477XU-RP		TS-1232PXU-RP	
			
TS-h2477XU-RP-3700X-32G		TS-1232PXU-RP-4G	
QTS / QuTS hero		QTS	
AMD Ryzen™ 7 3700X 8-core/16-thread processor, burst up to 4.4 GHz		AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 quad-core 1.7GHz processor	
64-bit x86		64-bit ARM	
-		-	
Yes		Yes	
Yes (AES-NI)		Yes	
-		-	
32 GB UDIMM DDR4 (2 x 16GB)		4 GB UDIMM DDR4 (1 x 4 GB)	
128 GB (4 x 32 GB)		16 GB (1 x 16 GB)	
4 x Long-DIMM DDR4		1 x Long-DIMM DDR4	
24 x 3.5-inch SATA 6Gb/s, 3Gb/s		12 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Yes		Yes	
-		Optional via a PCIe adapter	
Yes		Yes	
2		-	
Optional via a PCIe adapter		2 (also support 10M)	
Optional via a PCIe adapter		-	
2 x 10GbE SFP+ SmartNIC port		2 x 10GbE SFP+	
Optional via a PCIe adapter		-	
-		-	
4 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x8 or PCIe Gen 3 x4* Slot 3: PCIe Gen 3 x8 or PCIe Gen 3 x4** Slot 4: PCIe Gen 3 x4 *Slot 2 provides the width of PCIe Gen.3 x8 when Slot 1 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 1 is in use. **Slot 3 provides the width of PCIe Gen.3 x8 when Slot 4 is not in use, and provides the width of PCIe Gen.3 x4 when Slot 4 is in use. ***PCIe slot 4 is preinstalled with a 10GbE network adapter		1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.	
-		-	
4		4	
1 x Type-C USB 3.2 Gen 2 10Gbps 1 x Type-A USB 3.2 Gen 2 10Gbps		-	
-		-	
4U Rackmount		2U Rackmount	
176.15 x 481.04 x 672.02		89 x 482 x 534	
22.66		11.34	
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
800W(x2), 100-240V		250W (x2) PSU, 100 - 240V	
143.97		83.57	
System fan: 4 x 92mm, 12VDC		2 x 70mm, 12VDC	
-		-	

	TS-832PXU-RP	TS-832PXU	
			
Model	TS-832PXU-RP-4G	TS-832PXU-4G	
Operating System	QTS	QTS	
CPU	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 quad-core 1.7GHz processor	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 quad-core 1.7GHz processor	
CPU Architecture	64-bit ARM	64-bit ARM	
Graphic Processors	-	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes	Yes	
Hardware-accelerated Transcoding	-	-	
System Memory	4 GB UDIMM DDR4 (1 x 4 GB)	4 GB UDIMM DDR4 (1 x 4 GB)	
Maximum Memory	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	
Memory Slot	1 x Long-DIMM DDR4	1 x Long-DIMM DDR4	
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 slot	Optional via a PCIe adapter	Optional via a PCIe adapter	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (also support 10M)	2 (also support 10M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	-	
10 Gigabit Ethernet Port	2 x 10GbE SFP+	2 x 10GbE SFP+	
25 Gigabit Ethernet Port	-	-	
Thunderbolt Port	-	-	
PCIe Slot	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	4	4	
USB 3.2 Gen 2 (10Gbps) Port	-	-	
HDMI Output	-	-	
Form Factor	2U Rackmount	2U Rackmount	
Dimensions (HxWxD mm)	89 x 482 x 534	89 x 482 x 534	
Net Weight (kg)	10.94	9.45	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W (x2) PSU, 100 - 240V	250W PSU, 100 - 240V	
Power Consumption (w): Operating Mode, Typical	69.191	56.412	
Fan	2 x 70mm, 12VDC	2 x 70mm, 12VDC	
Kensington Security Slot	-	-	





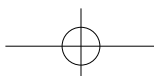
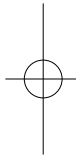
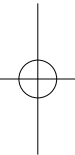
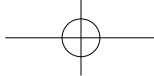
	TS-432PXU-RP	TS-432PXU
		
	TS-432PXU-RP-2G	TS-432PXU-2G
	QTS	QTS
	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 quad-core 1.7GHz processor	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 quad-core 1.7GHz processor
	64-bit ARM	64-bit ARM
	-	-
	Yes	Yes
	Yes	Yes
	-	-
	2 GB UDIMM DDR4 (1 x 2 GB)	2 GB UDIMM DDR4 (1 x 2 GB)
	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)
	1 x Long-DIMM DDR4	1 x Long-DIMM DDR4
	4 x 3.5" SATA 6Gb/s, 3Gb/s	4 x 3.5" SATA 6Gb/s, 3Gb/s
	Yes	Yes
	Optional via a PCIe adapter	Optional via a PCIe adapter
	Yes	Yes
	-	-
	2 (also support 10M)	2 (also support 10M)
	-	-
	2 x 10GbE SFP+	2 x 10GbE SFP+
	-	-
	-	-
	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.
	-	-
	4	4
	-	-
	-	-
	1U Rackmount	1U Rackmount
	44 x 439 x 499	44 x 439 x 499
	8.12	6.53
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	250W (x2) PSU, 100 - 240V	250W PSU, 100 - 240V
	53.343	39.558
	2 x 40mm, 12VDC	2 x 40mm, 12VDC
	-	-

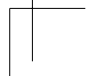
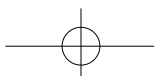
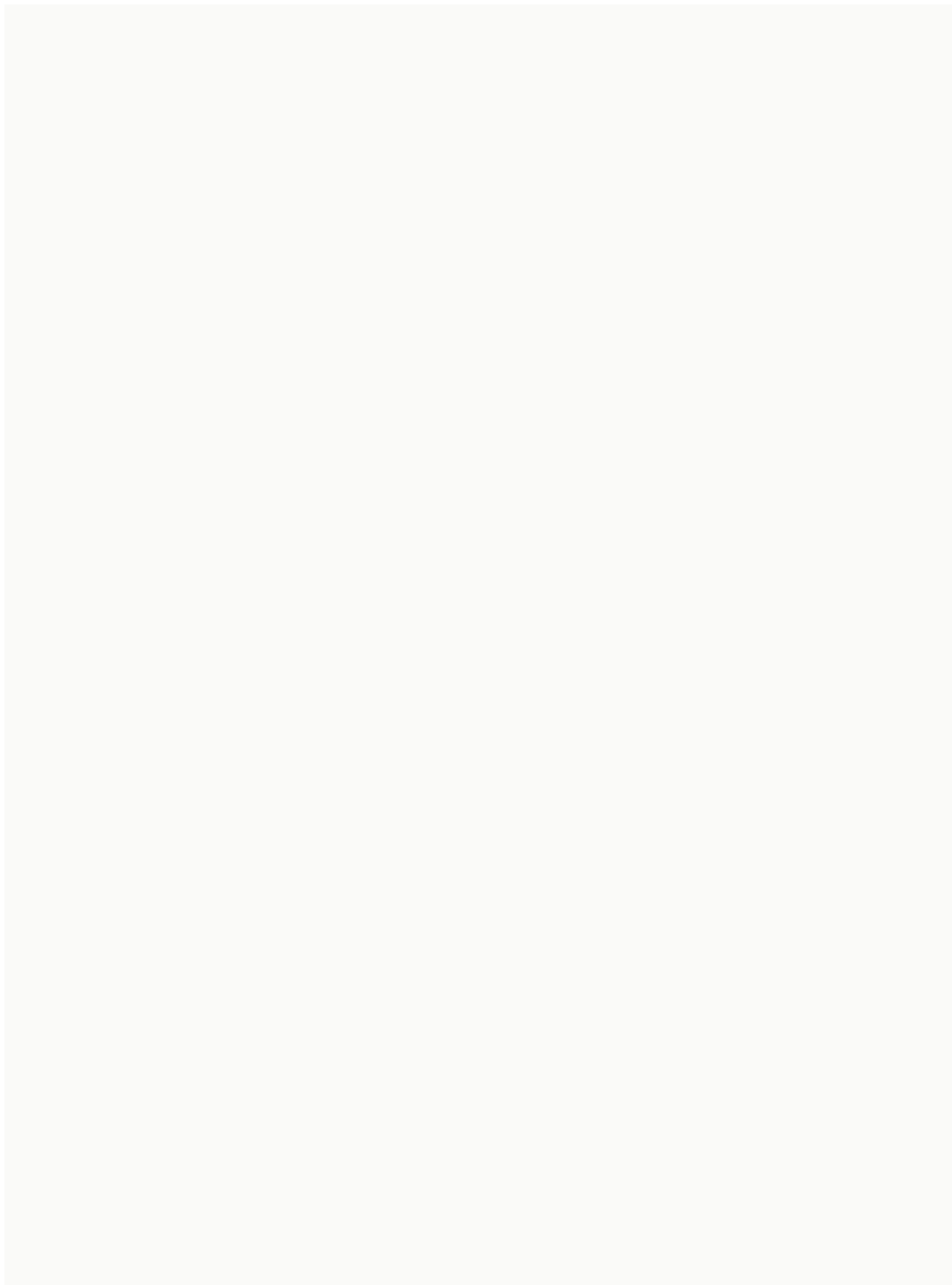
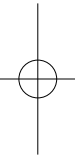
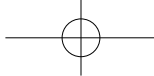
	TS-431KX	TS-431X3
		
Model	TS-431KX-2G	TS-431X3-4G
Operating System	QTS	QTS
CPU	AnnapurnaLabs, an Amazon company Alpine AL214, 4-core, 1.7GHz	AnnapurnaLabs, an Amazon company Alpine AL314, 4-core, 1.7GHz
CPU Architecture	32-bit ARM	32-bit ARM
Graphic Processors	-	-
Floating Point Unit	Yes	Yes
Encryption Engine	Yes	Yes
Hardware-accelerated Transcoding	-	-
System Memory	2 GB SODIMM DDR3 (1 x 2 GB)	4 GB SODIMM DDR3 (1 x 4 GB)
Maximum Memory	8 GB (1 x 8 GB)	8 GB (1 x 8 GB)
Memory Slot	1 x SO-DIMM DDR3	1 x SO-DIMM DDR3
Drive Bay	4x 3.5-inch SATA 6Gb/s, 3Gb/s	4x 3.5-inch SATA 6Gb/s, 3Gb/s
Hot-swappable	Yes	Yes
M.2 slot	-	-
SSD Cache Acceleration Support	Yes	Yes
Gigabit Ethernet Port (RJ45)	2	1
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-	1
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	-
10 Gigabit Ethernet Port	1 x 10GbE SFP+	1 x 10GbE SFP+
25 Gigabit Ethernet Port	-	-
Thunderbolt Port	-	-
PCIe Slot	-	-
USB 2.0 port	-	-
USB 3.2 Gen 1 port	3	3
USB 3.2 Gen 2 (10Gbps) Port	-	-
HDMI Output	-	-
Form Factor	Tower	Tower
Dimensions (HxWxD mm)	169 x 160 x 219	169 x 160 x 219
Net Weight (kg)	2.01	2.01
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	90W Adapter, 100-240V	90W Adapter, 100-240V
Power Consumption (w): Operating Mode, Typical	26.7	-
Fan	1 x 120mm, 12VDC	1 x 120mm, 12VDC
Kensington Security Slot	Yes	Yes



TS-932PX		TS-832PX	
			
TS-932PX-4G		TS-832PX-4G	
QTS		QTS	
AnnapurnaLabs Alpine AL324 ARM® Cortex-A57 quad-core 1.7GHz processor		AnnapurnaLabs Alpine AL324 ARM® Cortex-A57 quad-core 1.7GHz processor	
64-bit ARM		64-bit ARM	
-		-	
Yes		Yes	
Yes		Yes	
-		-	
4 GB SODIMM DDR4 (1 x 4 GB)		4 GB SODIMM DDR4(1 x 4 GB)	
16 GB (1 x 16 GB)		16 GB (1 x 16 GB)	
1 x SO-DIMM DDR4		1 x SO-DIMM DDR4	
5x 3.5-inch+ 4 x 2.5-inch SATA 6Gb/s		8 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Yes		Yes	
-		Optional via a PCIe adapter	
Yes		Yes	
-		-	
2 (also support 10M)		2 (also support 10M)	
-		-	
2 x 10GbE SFP+		2 x 10GbE SFP+	
-		-	
-		-	
-		1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth limitations will restrict the NAS 10GbE performance.	
-		-	
3		3	
-		-	
-		-	
Tower		Tower	
182.7 x 224.6 x 224.1		188.2 x 329.3 x 280.8	
3.39		6.38	
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
External, 120 W, AC 100 to 240 V		250W, 100-240V AC, 50/60Hz, 3.5A	
-		50.858	
1 x 140mm, 12VDC		System fan: 2 x 120mm, 12VDC CPU fan: 1 x 60mm	
Yes		Yes	

	TS-i410X	TS-h973AX	
			
Model	TS-i410X-8G	TS-h973AX-32G	TS-h973AX-8G
Operating System	QTS	QTS / QuTS hero	
CPU	Intel® Atom® x6425E 4-core/4-thread processor, burst up to 3.0 GHz	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	Intel® UHD Graphics for 10th Gen Intel® Processors	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	Yes	-	
System Memory	8 GB on board (non-expandable) Note: Reserves some RAM for use as shared graphics memory.	32 GB SO-DIMM DDR4 (2 x 16 GB)	8 GB SO-DIMM DDR4 (1 x 8 GB)
Maximum Memory	8 GB on board (non-expandable)	64 GB (2 x 32 GB)	
Memory Slot	-	2 x SO-DIMM DDR4 Support optional ECC memory	
Drive Bay	4 x 2.5-inch SATA 6Gb/s, 3Gb/s	5 x 3.5-inch + 4 x 2.5-inch	
Hot-swappable	Yes	Yes	
M.2 slot	-	-	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-	2	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	Optional via the QNA-UC5G1T USB to 5GbE network adapter	
10 Gigabit Ethernet Port	2 x 10GBASE-T (10G/5G/2.5G/1G)	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	
25 Gigabit Ethernet Port	-	-	
Thunderbolt Port	-	-	
PCIe Slot	-	-	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	-	-	
USB 3.2 Gen 2 (10Gbps) Port	4	1 x Type-C USB 3.2 Gen 2 3 x Type-A USB 3.2 Gen 2	
HDMI Output	1, HDMI 1.4b (up to 3840 x 2160 @ 30Hz)	-	
Form Factor	Tower	Tower	
Dimensions (HxWxD mm)	65 x 180 x 254	182.65 x 224.6 x 224.1	
Net Weight (kg)	2.54	3.52	
Operating temperature	-40 - 70 °C (-40°F - 158°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	1. External Power Adapter, 90W and above, AC 100-240V 2. 9-36V DC input To avoid potential personal injury or component damage, DO NOT plug in two power inputs simultaneously.	External, 120 W, AC 100 to 240 V	
Power Consumption (w): Operating Mode, Typical	-	55.41	
Fan	-	1 x 140mm, 12VDC	
Kensington Security Slot	Yes	Yes	









Solution NAS 2,5GbE

Le 2,5GbE n'est pas
réservé aux bureaux,
adoptez le chez vous





	TVS-h474	TVS-h674		
				
Model	TVS-h474-PT-8G	TVS-h674-i5-32G	TVS-h674-i3-16G	
Operating System	QTS / QuTS hero	QTS / QuTS hero		
CPU	Intel® Pentium™ Gold G7400 2-core/ 4-thread 3.7 GHz Processor	Intel® Core™ i5-12400 6-core/ 12-thread Processor, burst up to 4.4 GHz	Intel® Core™ i3-12100 4-core/ 8-thread Processor, burst up to 4.3 GHz	
CPU Architecture	64-bit x86	64-bit x86		
Graphic Processors	Intel® UHD Graphics 710	Intel® UHD Graphics 770	Intel® UHD Graphics 730	
Floating Point Unit	Yes	Yes		
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)		
Hardware-accelerated Transcoding	Yes	Yes		
System Memory	8 GB SODIMM DDR4 (1 x 8 GB)	32 GB SODIMM DDR4 (2 x 16 GB)	16 GB SODIMM DDR4 (1 x 16 GB)	
Maximum Memory	128 GB (2 x 64 GB)	128 GB (2 x 64 GB)		
Memory Slot	2 x SODIMM DDR4	2 x SODIMM DDR4		
Drive Bay	4 x 3.5-inch SATA 6Gb/s, 3Gb/s	6 x 3.5-inch SATA 6Gb/s, 3Gb/s		
Hot-swappable	Yes	Yes		
M.2 Slot	2 x M.2 2280 PCIe Gen3 x2 slots	2 x M.2 2280 PCIe Gen4 x4 slots		
SSD Cache Acceleration Support	Yes	Yes		
Gigabit Ethernet Port (RJ45)	-	-		
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)		
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter		
10 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter		
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter		
Thunderbolt Port	-	-		
PCIe Slot	2 Slot 1: PCIe Gen 4 x16 (CPU) Slot 2: PCIe Gen 3 x2 (PCH)	2 Slot 1: PCIe Gen 4 x16 (CPU) Slot 2: PCIe Gen 4 x4 (PCH)		
USB 2.0 port	-	-		
USB 3.2 Gen 1 port	-	-		
USB 3.2 Gen 2 (10Gbps) port	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps		
HDMI Output	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)		
Form Factor	Tower	Tower		
Dimensions (HxWxD mm)	188.2 x 199.3 x 279.6	188.2 x 264.3 x 279.6		
Net Weight (kg)	-	6.553		
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)		
Power Supply Unit	250W, 100-240V	250W, 100-240V		
Power Consumption (w): Operating Mode, Typical	78.574	79.363		
Fan	System fan: 1 x 120mm, 12VDC CPU fan: 1 x 60mm, 12VDC	System fan: 2 x 92mm, 12VDC CPU fan: 1 x 60mm, 12VDC		
Kensington Security Slot	Yes	Yes		





TVS-h874





TVS-h874X-i9-64G	TVS-h874-i7-32G	TVS-h874-i5-32G
QuTS hero / QTS	QuTS hero / QTS	QuTS hero / QTS
Intel® Core™ i9 16-core (8P+8E) /24-thread Processor	Intel® Core™ i7 12-core (8P+4E) /20-thread Processor	Intel® Core™ i5-12400 6-core/12-thread Processor, burst up to 4.4 GHz
64-bit x86	64-bit x86	64-bit x86
Intel® UHD Graphics 770	Intel® UHD Graphics 770	Intel® UHD Graphics 730
Yes	Yes	Yes
Yes (AES-NI)	Yes (AES-NI)	Yes (AES-NI)
Yes	Yes	Yes
64 GB SODIMM DDR4 (2 x 32 GB)	32 GB SODIMM DDR4 (2 x 16 GB)	32 GB SODIMM DDR4 (2 x 16 GB)
64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4
8 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s
Yes	Yes	Yes
2 x M.2 2280 PCIe Gen4 x4 slots	2 x M.2 2280 PCIe Gen4 x4 slots	2 x M.2 2280 PCIe Gen4 x4 slots
Yes	Yes	Yes
-	-	-
2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)
Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
2 x 10GBASE-T	Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
-	-	-
2 Slot 1: PCIe Gen 4 x16 Slot 2: PCIe Gen 4 x4	2 Slot 1: PCIe Gen 4 x16 Slot 2: PCIe Gen 4 x4	2 Slot 1: PCIe Gen 4 x16 Slot 2: PCIe Gen 4 x4
-	-	-
-	-	-
1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps
1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)
Tower	Tower	Tower
188.2 x 329.3 x 280.8	188.2 x 329.3 x 280.8	188.2 x 329.3 x 280.8
7.06	7.3	7.3
0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
350W, 100-240V	350W, 100-240V	250W, 100-240V
81.865	98.959	96.247
System fan: 2 x 120mm, 12VDC CPU fan: 1 x 60mm, 12VDC	System fan: 2 x 120mm, 12VDC CPU fan: 1 x 60mm, 12VDC	System fan: 2 x 120mm, 12VDC CPU fan: 1 x 60mm, 12VDC
Yes	Yes	Yes


	TS-253E	TS-453E
		
Model	TS-253E-8G	TS-453E-8G
Operating System	QTS	QTS
CPU	Intel® Celeron® J6412 4-core/ 4-thread processor, burst up to 2.6 GHz	Intel® Celeron® J6412 4-core/ 4-thread processor, burst up to 2.6 GHz
CPU Architecture	64-bit x86	64-bit x86
Graphic Processors	Intel® UHD Graphics	Intel® UHD Graphics
Floating Point Unit	Yes	Yes
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)
Hardware-accelerated Transcoding	Yes	Yes
System Memory	8 GB on board (non-expandable)	8 GB on board (non-expandable)
Maximum Memory	8GB	8GB
Memory Slot	-	-
Drive Bay	2 x 3.5-inch SATA 6Gb/s	4 x 3.5-inch SATA 6Gb/s
Hot-swappable	Yes	Yes
M.2 slot	2 x M.2 2280 PCIe Gen 3 x2	2 x M.2 2280 PCIe Gen 3 x2
SSD Cache Acceleration Support	Yes	Yes
Gigabit Ethernet Port (RJ45)	-	-
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	-
10 Gigabit Ethernet Port	-	-
25 Gigabit Ethernet Port	-	-
Thunderbolt Port	-	-
PCIe Slot	-	-
USB 2.0 port	2	2
USB 3.2 Gen 1 port	-	-
USB 3.2 Gen 2 (10Gbps) Port	2 x Type-A	2 x Type-A
HDMI Output	2 x HDMI 1.4b (up to 3840 x 2160 @ 30Hz)	2 x HDMI 1.4b (up to 3840 x 2160 @ 30Hz)
Form Factor	Tower	Tower
Dimensions (HxWxD mm)	168.5 x 102 x 225	177 x 180 x 235
Net Weight (kg)	1.28	3
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	60W/65W adapter, 100-240V	90W adapter, 100-240V
Power Consumption (w): Operating Mode, Typical	18.09	33.88
Fan	1 x 70mm, 12VDC	1 x 120mm, 12VDC
Kensington Security Slot	Yes	Yes





TS-364		HS-264	
			
TS-364-8G		HS-264-8G	
QTS		QTS	
Intel® Celeron® N5095 4-core/ 4-thread processor, burst up to 2.9 GHz		Intel Celeron N5105 4 core 2.0GHz, burst up to 2.9GHz	
64-bit x86		64-bit x86	
Intel® UHD Graphics		Intel® UHD Graphics	
Yes		Yes	
Yes (AES-NI)		Yes (AES-NI)	
Yes		Yes	
8 GB on board (non-expandable)		8 GB DDR4, not expandable	
8 GB		8 GB DDR4, not expandable	
-		-	
3 x 3.5-inch SATA 6Gb/s, 3Gb/s		2 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Yes		Yes	
2 x M.2 2280 PCIe Gen 3 x2 slots		-	
Yes		Yes	
-		-	
1		2 (also support 10M)	
Optional via a PCIe adapter		-	
-		-	
-		-	
-		-	
-		-	
-		-	
1		2 x Type A	
2 x Type-A		2 x Type A	
1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)		2 x HDMI 2.0 (up to resolution 3840 x 2160 @ 60Hz)	
Tower		Tower	
142 x 150 x 260		41.3 x 302 x 220	
1.64		1.56	
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
65W adapter, 100 - 240V		60W adapter, 100-240V	
-		-	
1 x 92mm, 12VDC		-	
Yes		Yes	




	TBS-464	TS-264	
			
Model	TBS-464-8G	TS-264-8G	
Operating System	QTS	QTS	
CPU	Intel® Celeron® N5105 4-core/4-thread processor, burst up to 2.9GHz		
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	Intel® UHD Graphics	Intel® UHD Graphics	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	Yes	Yes	
System Memory	8 GB DDR4, not expandable	8 GB on board (non-expandable)	
Maximum Memory	8 GB DDR4, not expandable	8 GB	
Memory Slot	-	-	
Drive Bay	-	2 x 3.5-inch SATA 6Gb/s	
Hot-swappable	-	Yes	
M.2 slot	4 x M.2 2280 NVMe Gen3 x2 slots	2 x M.2 2280 PCIe Gen 3 x1	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (also support 10M)	2 (2.5G/1G/100M/10M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	-	Optional via a PCIe adapter	
25 Gigabit Ethernet Port	-	-	
Thunderbolt Port	-	-	
PCIe Slot	-	1 Slot 1: PCIe Gen 3 x2	
USB 2.0 port	3	2	
USB 3.2 Gen 1 port	2	-	
USB 3.2 Gen 2 (10Gbps) Port	-	2 x Type-A	
HDMI Output	2, HDMI 2.0 (up to resolution 3840 x 2160 @ 60Hz)	1, HDMI 2.0	
Form Factor	Set-top design	Tower	
Dimensions (HxWxD mm)	30 x 230 x 165	168 x 105 x 226	
Net Weight (kg)	0.8	1.55	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	External Power Adapter, 65W, 100-240V	65W adapter, 100-240V	
Power Consumption (w): Operating Mode, Typical	16.52	12.448	
Fan	1 x system fan	1 x 70mm, 12VDC	
Kensington Security Slot	Yes	Yes	





TS-464		TS-664	
			
TS-464-8G		TS-664-8G	
TS-464-4G		TS-664-4G	
QTS		QTS	
Intel® Celeron® N5095 4-core/ 4-thread processor, burst up to 2.9 GHz	Intel® Celeron® N5095 4-core/4-thread processor, burst up to 2.9 GHz	Intel® Celeron® N5095 4-core/ 4-thread processor, burst up to 2.9 GHz	Intel® Celeron® N5095 4-core/4-thread processor, burst up to 2.9 GHz
64-bit x86		64-bit x86	
Intel® UHD Graphics		Intel® UHD Graphics	
Yes		Yes	
Yes (AES-NI)		Yes (AES-NI)	
Yes		Yes	
8 GB on board (non-expandable)	4 GB SODIMM DDR4 (1 x 4 GB)	8 GB on board (non-expandable)	4 GB SODIMM DDR4 (1 x 4 GB)
8GB	16 GB (2 x 8GB)	8GB	16 GB (2 x 8GB)
-	2 x SODIMM DDR4	-	2 x SODIMM DDR4
4 x 3.5-inch SATA 6Gb/s		6 x 3.5-inch SATA 6Gb/s	
Yes		Yes	
2 x M.2 2280 PCIe Gen 3 x1		2 x M.2 2280 PCIe Gen 3 x1	
Yes		Yes	
-		-	
2 (2.5G/1G/100M/10M)		2 (2.5G/1G/100M/10M)	
Optional via a PCIe adapter		Optional via a PCIe adapter	
Optional via a PCIe adapter		Optional via a PCIe adapter	
-		-	
-		-	
1 Slot 1: PCIe Gen 3 x2		1 Slot 1: PCIe Gen 3 x2	
2		2	
-		-	
2 x Type-A		2 x Type-A	
1, HDMI 2.0	1, HDMI 2.1	1, HDMI 2.0	1, HDMI 2.1
Tower		Tower	
168 x 170 x 226		168 x 235 x 226	
2.26		2.9	
0 - 40 °C (32°F - 104°F)		0 ~ 40°C (32°F ~ 104°F)	
90W adapter, 100-240V		120W adapter, 100-240V	
-	40.536	35.437	44.02
1 x 120mm, 12VDC		2 x 90mm, 12VDC	
Yes		Yes	



	TS-262	TS-462	
			
Model	TS-262-4G	TS-462-2G	TS-462-4G
Operating System	QTS	QTS	QTS
CPU	Intel® Celeron® N4505 2-core/ 2-thread processor, burst up to 2.9 GHz	Intel® Celeron® N4505 2-core/ 2-thread processor, burst up to 2.9 GHz	Intel® Celeron® N4505 2-core/ 2-thread processor, burst up to 2.9 GHz
CPU Architecture	64-bit x86	64-bit x86	64-bit x86
Graphic Processors	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
Floating Point Unit	Yes	Yes	Yes
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	Yes (AES-NI)
Hardware-accelerated Transcoding	Yes	Yes	Yes
System Memory	4 GB on board (non-expandable)	2 GB RAM	4 GB on board (non-expandable)
Maximum Memory	4 GB	16 GB (2 x 8GB)	4 GB
Memory Slot	-	2 x SODIMM DDR4	-
Drive Bay	2 x 3.5-inch SATA 6Gb/s	4 x 3.5-inch SATA 6Gb/s	4 x 3.5-inch SATA 6Gb/s
Hot-swappable	Yes	Yes	Yes
M.2 Slot	2 x M.2 2280 PCIe Gen 3 x1	2 x M.2 2280 PCIe Gen 3 x1	2 x M.2 2280 PCIe Gen 3 x1
SSD Cache Acceleration Support	Yes	Yes	Yes
Gigabit Ethernet Port (RJ45)	-	-	-
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	1 (2.5G/1G/100M/10M)	1 (2.5G/1G/100M/10M)	1 (2.5G/1G/100M/10M)
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
10 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
25 Gigabit Ethernet Port	-	-	-
Thunderbolt Port	-	-	-
PCIe Slot	1 Slot 1: PCIe Gen 3 x2	1 Slot 1: PCIe Gen 3 x2	1 Slot 1: PCIe Gen 3 x2
USB 2.0 port	2	2	2
USB 3.2 Gen 1 port	-	-	-
USB 3.2 Gen 2 (10Gbps) port	2 x Type-A	2 x Type-A	2 x Type-A
HDMI Output	1, HDMI 2.0	1, HDMI 2.0	1, HDMI 2.0
Form Factor	Tower	Tower	Tower
Dimensions (HxWxD mm)	168 x 105 x 226	168 x 170 x 226	168 x 170 x 226
Net Weight (kg)	1.55	2.26	2.26
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	65W adapter, 100-240V	90W adapter, 100-240V	90W adapter, 100-240V
Power Consumption (w): Operating Mode, Typical	12.448	25.98	25.98
Fan	1 x 70mm, 12VDC	1 x 120mm, 12VDC	1 x 120mm, 12VDC
Kensington Security Slot	Yes	Yes	Yes





	TS-873A	TS-673A	TS-473A
			
	TS-873A-8G	TS-673A-8G	TS-473A-8G
	QTS / QuTS hero	QTS / QuTS hero	QTS / QuTS hero
	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor
	64-bit x86	64-bit x86	64-bit x86
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	Yes	Yes	Yes
	Yes (AES-NI)	Yes (AES-NI)	Yes (AES-NI)
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	8 GB SO-DIMM DDR4 (1 x 8 GB)	8 GB SO-DIMM DDR4 (1 x 8 GB)	8 GB SO-DIMM DDR4 (1 x 8 GB)
	64GB (2 x 32 GB)	64GB (2 x 32 GB)	64 GB (2 x 32 GB)
	2 x SO-DIMM DDR4 Support ECC memory	2 x SO-DIMM DDR4 Support ECC memory	2 x SO-DIMM DDR4 Support ECC memory
	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	6 x 3.5-inch SATA 6Gb/s, 3Gb/s	4 x 3.5-inch SATA 6Gb/s, 3Gb/s
	Yes	Yes	Yes
	2 x M.2 2280 PCIe Gen3 x1 slots	2 x M.2 2280 PCIe Gen3 x1 slots	2 x M.2 2280 PCIe Gen3 x1 slots
	Yes	Yes	Yes
	-	-	-
	2	2	2
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	-	-	-
	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4
	-	-	-
	-	-	-
	3 x Type-A USB 3.2 Gen 2 10Gbps 1 x Type-C USB 3.2 Gen 1 5Gbps	3 x Type-A USB 3.2 Gen 2 10Gbps 1 x Type-C USB 3.2 Gen 1 5Gbps	3 x Type-A USB 3.2 Gen 2 5V/1A 10Gbps 1 x Type-C USB 3.2 Gen 1 5V/1A 5Gbps
	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
	Tower	Tower	Tower
	188.2 x 329.3 x 280.8	188.2 x 264.3 x 280.8	188.2 x 199.3 x 280.8
	6.76	5.78	5.03
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	250W, 100-240V AC, 50-60Hz, 3.5A	250W, 100-240V AC, 50-60Hz, 3.5A	250W, 100-240V AC, 50-60Hz, 3.5A
	54.067	45.898	29.792
	System fan: 2 x 120mm	System fan: 2 x 92mm	System fan: 1 x 120mm CPU fan: 1 x 60mm
	Yes	Yes	-



	TVS-675	TS-431P3	
			
Model	TVS-675-8G	TS-431P3-4G	
Operating System	QTS / QuTS hero	QTS	
CPU	ZhaoXin KX-U6580 8-core 2.5GHz processor	AnnapurnaLabs, an Amazon company Alpine AL314, 4-core, 1.7GHz	
CPU Architecture	64-bit x86	32-bit ARM	
Graphic Processors	ZhaoXin C-960 Graphics	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes	
Hardware-accelerated Transcoding	Yes	-	
System Memory	8 GB SODIMM DDR4 (1 x 8 GB)	4GB SO-DIMM DDR3	
Maximum Memory	64 GB (2 x 32 GB)	8GB DDR3	
Memory Slot	2 x SO-DIMM DDR4	1 x SO-DIMM DDR3	
Drive Bay	6 x 3.5-inch SATA 6Gb/s, 3Gb/s	4x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes The following are not hot-swappable: M.2 SSDs, SSD cache drives, SSDs using PCIe expansion slots.	
M.2 slot	2 x M.2 2280 PCIe Gen 3 x1 or SATA 6Gb/s slots	-	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	1	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2	1	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	-	
10 Gigabit Ethernet Port	Optional via a PCIe adapter	-	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	-	
Thunderbolt Port	-	-	
PCIe Slot	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	2	3	
USB 3.2 Gen 2 (10Gbps) Port	2 x Type-A	-	
HDMI Output	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)	-	
Form Factor	Tower	Tower	
Dimensions (HxWxD mm)	188.2 x 263.9 x 280.8	169 x 160 x 219	
Net Weight (kg)	6.2	2.01	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W, 100-240V AC, 50/60Hz, 3.5A	90W Adapter, 100-240V	
Power Consumption (w): Operating Mode, Typical	60.794	26.7	
Fan	3 x 80mm, 12VDC	1 x 120mm, 12VDC	
Kensington Security Slot	Yes	Yes	





TS-431P3		TS-231P3	
			
TS-431P3-2G		TS-231P3-4G	TS-231P3-2G
QTS		QTS	QTS
AnnapurnaLabs, an Amazon company Alpine AL314, 4-core, 1.7GHz		AnnapurnaLabs, an Amazon company Alpine AL314, 4-core, 1.7GHz	
32-bit ARM		32-bit ARM	
-		-	
Yes		Yes	
Yes		Yes	
-		-	
2GB SO-DIMM DDR3		4GB SO-DIMM DDR3	2GB SO-DIMM DDR3
8GB DDR3		8GB DDR3	
1 x SO-DIMM DDR3		1 x SO-DIMM DDR3	
4x 3.5-inch SATA 6Gb/s, 3Gb/s		2 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Yes		Yes	
-		-	
Yes		Yes	
1		1	
1		1	
-		-	
-		-	
-		-	
-		-	
-		-	
3		3	
-		-	
-		-	
Tower		Tower	
169 x 160 x 219		169 x 102 x 219	
2.01		1.46	
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
90W Adapter, 100-240V		60W/65W Adapter, 100-240V	
26.7		15.6	
1 x 120mm, 12VDC		1 x70mm, 12VDC	
Yes		Yes	



	TS-1655	TS-AI642	
			
Model	TS-1655-8G	TS-AI642-8G	
Operating System	QTS	QTS	
CPU	Intel® Atom® C5125 8-core processor, 2.8 GHz	8-core ARM Cortex 64-bit Processor (4-core Cortex-A76 2.2 GHz + 4-core Cortex-A55 1.8 GHz)	
CPU Architecture	64-bit x86	64-bit ARM	
Graphic Processors	-	ARM Mali-G610 MC4	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes	Yes	
Hardware-accelerated Transcoding	-	Yes	
System Memory	8 GB UDIMM DDR4 (1 x 8 GB)	8 GB on board (non-expandable)	
Maximum Memory	128 GB (4 x 32 GB)	8 GB	
Memory Slot	4 x U-DIMM DDR4	-	
Drive Bay	12 x 3.5-inch + 4 x 2.5-inch SATA 6Gb/s, 3Gb/s	-	
Hot-swappable	Yes	Yes	
M.2 Slot	2 x M.2 2280 PCIe Gen3 x2 slots	-	
SSD Cache Acceleration Support	Yes	-	
GPU pass-through	-	-	
SR-IOV	Yes	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)	1 (2.5G/1G/100M/10M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	-	
PCIe Slot	3 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4 Slot 3: PCIe Gen 3 x4	1 Slot 1: PCIe Gen 3 x2	
USB 2.0 port	-	2	
USB 3.2 Gen 1 port	4	-	
USB 3.2 Gen 2 (10Gbps) Port	-	-	
HDMI Output	-	1, HDMI 1.4b	
Form Factor	Tower	Tower	
Host Interface	-	-	
Dimensions (HxWxD mm)	303.84 x 369.89 x 319.8	168 x 235 x 226	
Net Weight (kg)	13.16	2.9	
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 ~ 40°C (32°F ~ 104°F)	
Power Supply Unit	550W, 100-240V 1 x 8-pin PCI-e cable + 1 x 8 (6+2)-pin PCI-e cable	120W adapter, 100-240V	
Power Consumption (w): Operating Mode, Typical	104.65	-	
Fan	System fan: 3 x 92mm, 12VDC CPU fan: 2 x 97mm, 12VDC	2 x 90mm, 12VDC	
Kensington Security Slot	Yes	Yes	





TS-h686		TS-h886	
			
TS-h686-D1602-8G		TS-h886-D1622-16G	TS-h886-D1602-8G
QTS / QuTS hero		QuTS hero / QTS	QuTS hero / QTS
Intel® Xeon® D-1602 2-core/ 4-thread processor, up to 3.2 GHz		Intel® Xeon® D-1622 4-core/ 8-thread processor, up to 3.2 GHz	Intel® Xeon® D-1602 2-core/ 4-thread processor, up to 3.2 GHz
64-bit x86		64-bit x86	64-bit x86
-		-	-
Yes		Yes	Yes
Yes (AES-NI)		Yes (AES-NI)	Yes (AES-NI)
Yes		Optional via a PCIe adapter	Optional via a PCIe adapter
8 GB UDIMM DDR4 ECC (2 x 4 GB)		16 GB UDIMM DDR4 ECC (2 x 8 GB)	8 GB UDIMM DDR4 ECC (2 x 4 GB)
128 GB (4 x 32 GB)		128 GB (4 x 32 GB)	128 GB (4 x 32 GB)
4 x Long-DIMM DDR4		4 x UDIMM DDR4	4 x UDIMM DDR4
4 x 3.5-inch SATA 6Gb/s, 3Gb/s + 2 x 2.5-inch SATA 6Gb/s, 3Gb/s		6 x 3.5-inch SATA 6Gb/s, 3Gb/s + 2 x 2.5-inch SATA 6Gb/s, 3Gb/s	6 x 3.5-inch SATA 6Gb/s, 3Gb/s + 2 x 2.5-inch SATA 6Gb/s, 3Gb/s
Yes		Yes	Yes
2 x M.2 22110/2280 NVMe PCIe Gen3 x4 slots		2 x M.2 22110/2280 NVMe PCIe Gen3 x4 slots	2 x M.2 22110/2280 NVMe PCIe Gen3 x4 slots
Yes		Yes	Yes
-		Yes	Yes
-		Yes	Yes
4 (also support 10M)		4 (2.5G/1G/100M/10M)	4 (2.5G/1G/100M/10M)
Optional via a PCIe adapter		Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter		Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter		Optional via a PCIe adapter	Optional via a PCIe adapter
2 Slot 1: PCIe Gen3 x8 Slot 2: PCIe Gen3 x8		2 Slot 1: PCIe Gen3 x8 Slot 2: PCIe Gen3 x8	2 Slot 1: PCIe Gen3 x8 Slot 2: PCIe Gen3 x8
-		-	-
3		3	3
-		-	-
-		-	-
Tower		Tower	Tower
-		-	-
231.9 x 224.9 x 319.8		231.9 x 292.9 x 319.8	231.9 x 292.9 x 319.8
7.27		8.5	8.5
0 - 40°C (32°F - 104°F)		0 - 40°C (32°F - 104°F)	0 - 40°C (32°F - 104°F)
250W PSU, 100~240V		250W PSU, 100~240V	250W PSU, 100~240V
61.115		75.79	75.79
System fan: 1 x 97mm, 12VDC CPU fan: 1 x 90mm, 12VDC		System fan: 2 x 80mm, 12VDC CPU fan: 1 x 90mm, 12VDC	System fan: 2 x 80mm, 12VDC CPU fan: 1 x 90mm, 12VDC
Yes		Yes	Yes



	TS-464U		TS-464U-RP	
				
Model	TS-464U-8G	TS-464U-4G	TS-464U-RP-8G	
Operating System	QTS		QTS	
CPU	Intel® Celeron® N5105/N5095 4-core/ 4-thread processor, burst up to 2.9 GHz		Intel® Celeron® N5105/N5095 4-core/ 4-thread processor, burst up to 2.9 GHz	
CPU Architecture	64-bit x86		64-bit x86	
Graphic Processors	Intel® UHD Graphics		Intel® UHD Graphics	
Floating Point Unit	Yes		Yes	
Encryption Engine	Yes (AES-NI)		Yes (AES-NI)	
Hardware-accelerated Transcoding	Yes		Yes	
System Memory	8 GB on board (non-expandable)	4 GB SODIMM DDR4 (1 x 4 GB)	8 GB on board (non-expandable)	
Maximum Memory	8 GB	16 GB (2 x 8 GB)	8 GB	
Memory Slot	-	2 x SODIMM DDR4	2 x SODIMM DDR4	
Drive Bay	4 x 3.5-inch SATA 6Gb/s, 3Gb/s		4 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes		Yes	
M.2 Slot	Optional via a PCIe adapter		Optional via a PCIe adapter	
SSD Cache Acceleration Support	Yes		Yes	
Gigabit Ethernet Port (RJ45)	-		-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)		2 (2.5G/1G/100M/10M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter		Optional via a PCIe adapter	
10 Gigabit Ethernet Port	Optional via a PCIe adapter		Optional via a PCIe adapter	
25 Gigabit Ethernet Port	Optional via a PCIe adapter		Optional via a PCIe adapter	
Thunderbolt Port	-		-	
PCIe Slot	1 Slot 1: PCIe Gen 3 x2		1 Slot 1: PCIe Gen 3 x2	
USB 2.0 port	2		2	
USB 3.2 Gen 1 port	-		-	
USB 3.2 Gen 2 (10Gbps) port	2 x Type A USB3.2 Gen2		2 x Type A USB 3.2 Gen 2	
HDMI Output	1, HDMI 1.4b		1, HDMI 1.4b	
Form Factor	1U Rackmount		1U Rackmount	
Dimensions (HxWxD mm)	43.3 x 482.6 x 483.9		43.3 x 430 x 479	
Net Weight (kg)	6.6		8.12	
Operating Temperature	0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W (x1), 100-240V		250W (x2), 100-240V	
Power Consumption (w): Operating Mode, Typical	36.81		51.404	
Fan	2 x 40mm, 12VDC		2 x 40mm, 12VDC	
Kensington Security Slot	-		-	





TS-864eU	TS-1264U-RP
	
TS-864eU-4G	TS-1264U-RP-4G
QTS	QTS
Intel® Celeron® N5105/N5095 4-core/ 4-thread processor, burst up to 2.9 GHz	Intel® Celeron® N5105/N5095 4-core/ 4-thread processor, burst up to 2.9 GHz
64-bit x86	64-bit x86
Intel® UHD Graphics	Intel® UHD Graphics
Yes	Yes
Yes (AES-NI)	Yes (AES-NI)
Yes	Yes
4 GB SODIMM DDR4 (1 x 4 GB)	4 GB SODIMM DDR4 (1 x 4 GB)
16 GB (2 x 8 GB)	16 GB (2 x 8 GB)
-	-
8 x 3.5-inch SATA 6Gb/s, 3Gb/s	12 x 3.5-inch SATA 6Gb/s, 3Gb/s
Yes	Yes
Optional via a PCIe adapter	Optional via a PCIe adapter
Yes	Yes
-	-
2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)
Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter	Optional via a PCIe adapter
-	-
1 Slot 1: PCIe Gen 3 x2	1 Slot 1: PCIe Gen 3 x2
2	2
-	-
2 x Type A USB 3.2 Gen 2	2 x Type A USB3.2 Gen2
1, HDMI 1.4b	1, HDMI 1.4b
2U Rackmount	2U Rackmount
88.6 x 482.14 x 318.13	88.7 x 482.2 x 423.8
6.68	9.43
0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
300W, 100-240V	300W (x2), 100-240V
51.022	70.913
3 x 60mm, 12VDC	2 x 80mm, 12VDC
-	-


	TS-1273AU-RP	TS-1673AU-RP	
			
Model	TS-1273AU-RP-8G	TS-1673AU-RP-16G	
Operating System	QTS / QuTS hero	QTS / QuTS hero	
CPU	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	-	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	Optional via a PCIe graphics card	Optional via a PCIe graphics card	
System Memory	8 GB UDIMM DDR4 (1 x 8 GB)	16 GB UDIMM DDR4 (1 x 16 GB)	
Maximum Memory	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	
Memory Slot	2 x Long-DIMM DDR4 Support ECC memory	2 x Long-DIMM DDR4 Support ECC memory	
Drive Bay	12 x 3.5-inch SATA 6Gb/s, 3Gb/s	16 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 slot	Optional via a QNAP QM2 PCIe card	Optional via a QNAP QM2 PCIe card	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	-	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-	-	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
Thunderbolt Port	-	-	
PCIe Slot	2 x PCIe Gen3 x4	2 x PCIe Gen3 x4	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	1 x Type-A	1 x Type-A	
USB 3.2 Gen 2 (10Gbps) Port	2 x Type-C 1 x Type-A	2 x Type-C 1 x Type-A	
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	
Form Factor	2U Rackmount	3U Rackmount	
Dimensions (HxWxD mm)	89 x 482 x 425	132 x 482 x 425	
Net Weight (kg)	9.69	12	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	300W (x2) PSU, 100 - 240V	550W (x2), 100-240V AC, 50-60Hz, 7-3.5A	
Power Consumption (w): Operating Mode, Typical	78.92	97.34	
Fan	2 x 80mm, 12VDC	3 x 80mm, 12VDC	
Kensington Security Slot	-	-	

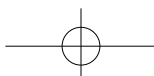
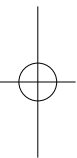
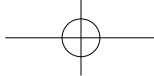


TS-873AeU	TS-873AeU-RP
	
TS-873AeU-4G	TS-873AeU-RP-4G
QTS / QuTS hero	QTS / QuTS hero
AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor
64-bit x86	64-bit x86
-	-
Yes	Yes
Yes (AES-NI)	Yes (AES-NI)
Optional via a PCIe graphics card	Optional via a PCIe graphics card
4 GB SODIMM DDR4 (1 x 4 GB)	4 GB SODIMM DDR4 (1 x 4 GB)
64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
2 x SODIMM DDR4 Support ECC memory	2 x SODIMM DDR4 Support ECC memory
8 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s
Yes	Yes
2 x M2 2280 (PCIe Gen3 x 1)	2 x M2 2280 (PCIe Gen3 x 1)
Yes	Yes
-	-
2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)
Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter	Optional via a PCIe adapter
Optional via a PCIe adapter	Optional via a PCIe adapter
-	-
1 x PCIe Gen3 x8	1 x PCIe Gen3 x8
-	-
-	-
4 (2 x Type A, 2 x Type C)	4 (2 x Type A, 2 x Type C)
Optional via a PCIe graphics card	Optional via a PCIe graphics card
2U Rackmount	2U Rackmount
89 x 482 x 297.4	89 x 482 x 297.4
7.61	8.15
0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
250W PSU, 100 - 240V	300W PSU(x2), 100 - 240V
52.49	58.14
3 x 60mm, 12VDC	3 x 60mm, 12VDC
-	-

	TS-855eU	TS-855eU-RP	
			
Model	TS-855eU-8G	TS-855eU-RP-8G	
Operating System	QTS	QTS	
CPU	Intel® Atom® C5125 8-core processor, up to 2.8GHz	Intel® Atom® C5125 8-core processor, up to 2.8GHz	
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	-	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)	
Hardware-accelerated Transcoding	Optional via a PCIe graphics card	Optional via a PCIe graphics card	
System Memory	8 GB SODIMM DDR4 (1 x 8 GB)	8 GB SODIMM DDR4 (1 x 8 GB)	
Maximum Memory	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	
Memory Slot	2 x SODIMM DDR4	2 x SODIMM DDR4	
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 Slot	2 x M.2 2280 (PCIe Gen3 x 2)	2 x M.2 2280 (PCIe Gen3 x 2)	
SSD Cache Acceleration Support	Yes	Yes	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)	2 (2.5G/1G/100M/10M)	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter	
10 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
PCIe Slot	2 x PCIe Gen3 (x4) Slot 1: PCIe Gen 3 (x4) Slot 2: PCIe Gen 3 (x4)	2 x PCIe Gen3 (x4) Slot 1: PCIe Gen 3 (x4) Slot 2: PCIe Gen 3 (x4)	
USB 2.0 port	-	-	
USB 3.2 Gen 1 port	4	4	
USB 3.2 Gen 2 (10Gbps) Port	-	-	
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	
Form Factor	2U Rackmount	2U Rackmount	
Host Interface	-	-	
Dimensions (HxWxD mm)	89 x 482 x 297.4	89 x 482 x 297.4	
Net Weight (kg)	7.61	8.15	
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W PSU, 100 - 240V	2 x 300W PSU, 100 - 240V	
Power Consumption (w): Operating Mode, Typical	79.113 Tested fully populated with WD10EFRX hard drives.	78.73 Tested fully populated with WD10EFRX hard drives.	
Fan	3 x 60mm, 12VDC	3 x 60mm, 12VDC	
Kensington Security Slot	-	-	



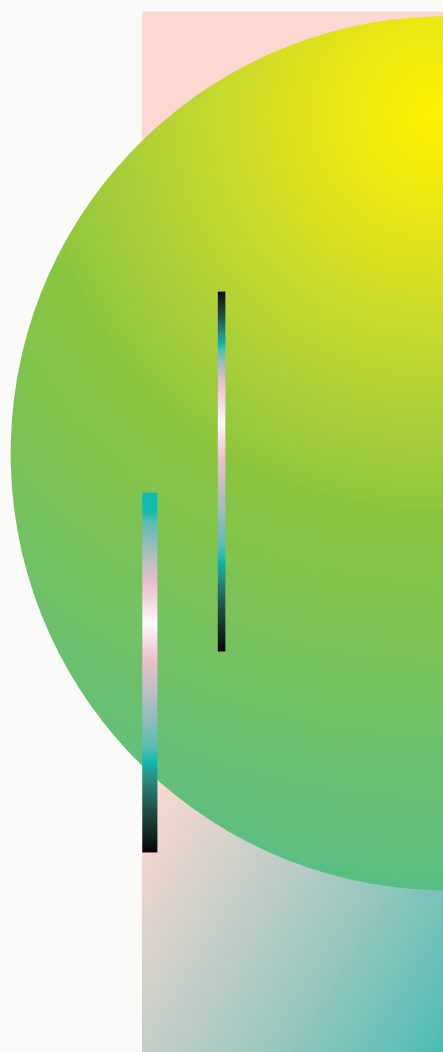
TS-410E	
	
	TS-410E-8G
	QTS
	Intel® Celeron® J6412 4-core/ 4-thread processor, burst up to 2.6 GHz
	64-bit x86
	Intel® UHD Graphics for 10th Gen Intel® Processors
	Yes
	Yes (AES-NI)
	Yes
	8 GB on board (non-expandable)
	8 GB on board (non-expandable)
	-
	4 x 2.5-inch SATA 6Gb/s, 3Gb/s
	Yes
	-
	Yes
	2 (2.5G/1G/100M/10M)
	-
	-
	-
	-
	-
	4
	1, HDMI 1.4b (up to 3840 x 2160 @ 30Hz)
	Tower
	-
	60 x 180 x 254
	2.64
	0 - 40 °C (32°F - 104°F)
	External Power Adapter, 90W and above, AC 100-240V
	-
	-
	Yes







Solution NAS Thunderbolt

Des performances
révolutionnaires
et une connectivité
exceptionnelle
avec les NAS Thunderbolt



	TVS-472XT	TVS-672XT
		
Model	TVS-472XT-i3-4G	TVS-672XT-i3-8G
Operating System	QTS / QuTS hero	QTS / QuTS hero
CPU	Intel® Core™ i3-8100T 4-core/4-thread 3.1 GHz Processor	Intel® Core™ i3-8100T 4-core/4-thread 3.1 GHz Processor
CPU Architecture	64-bit x86	64-bit x86
Graphic Processors	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Floating Point Unit	Yes	Yes
Encryption Engine	Yes (AES-NI)	Yes (AES-NI)
Hardware-accelerated Transcoding	Yes	Yes
System Memory	4 GB SODIMM DDR4 (1 x 4 GB)	8 GB SODIMM DDR4 (2 x 4 GB)
Maximum Memory	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
Memory Slot	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4
Drive Bay	4 x 3.5-inch SATA 6Gb/s, 3Gb/s	6 x 3.5-inch SATA 6Gb/s, 3Gb/s
Hot-swappable	Yes	Yes
M.2 Slot	2 x M.2 2280 PCIe Gen3 x2 slots	2 x M.2 2280 PCIe Gen3 x2 slots
SSD Cache Acceleration Support	Yes	Yes
Gigabit Ethernet Port (RJ45)	2	2
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter	Optional via a PCIe adapter
10 Gigabit Ethernet Port	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)
25 Gigabit Ethernet Port	Optional via a PCIe adapter	Optional via a PCIe adapter
Thunderbolt Port	2 (Thunderbolt™ 3)	2 (Thunderbolt™ 3)
PCIe Slot	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH) Slot 1 is preinstalled with a Thunderbolt 3 adapter	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH) Slot 1 is preinstalled with a Thunderbolt 3 adapter
USB 2.0 port	-	-
USB 3.2 Gen 1 port	1	1
USB 3.2 Gen 2 (10Gbps) Port	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	2 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps
HDMI Output	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)
Form Factor	Tower	Tower
Dimensions (HxWxD mm)	188.2 x 199.3 x 279.6	188.2 x 264.3 x 279.6
Net Weight (kg)	5.4	6.553
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	250W, 100-240V	250W, 100-240V
Power Consumption (w): Operating Mode, Typical	37.32	45.6
Fan	System fan: 1 x 120mm, 12VDC CPU fan: 2 x 60mm blower fan	System fan: 2 x 92mm, 12VDC CPU fan: 2 x 60mm blower fan
Kensington Security Slot	Yes	Yes



TVS-872XT



TVS-872XT-i5-16G

QTS / QuTS hero

Intel® Core™ i5-8400T 6-core/6-thread Processor, burst up to 3.3 GHz

64-bit x86

Intel® UHD Graphics 630

Yes

Yes (AES-NI)

Yes

16 GB SODIMM DDR4 (2 x 8 GB)

64 GB (2 x 32 GB)

2 x SO-DIMM DDR4

8 x 3.5-inch SATA 6Gb/s, 3Gb/s

Yes

2 x M.2 2280 PCIe Gen3 x2 slots

Yes

2

Optional via a PCIe adapter

Optional via a PCIe adapter

1 x 10GBASE-T (10G/5G/2.5G/1G/100M)

Optional via a PCIe adapter

2 (Thunderbolt™ 3)

2

Slot 1: PCIe Gen 3 x16 (CPU)

Slot 2: PCIe Gen 3 x4 (PCH)

Slot 1 is preinstalled with a Thunderbolt 3 adapter

-

1

2 x Type-C USB 3.2 Gen 2 10Gbps

2 x Type-A USB 3.2 Gen 2 10Gbps

1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)

Tower

188.2 x 329.3 x 279.6

7.06

0 - 40 °C (32°F - 104°F)

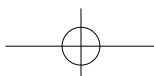
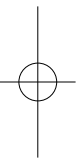
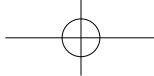
250W, 100-240V

65.03

System fan: 2 x 120mm, 12VDC

CPU fan: 2 x 60mm blower fan

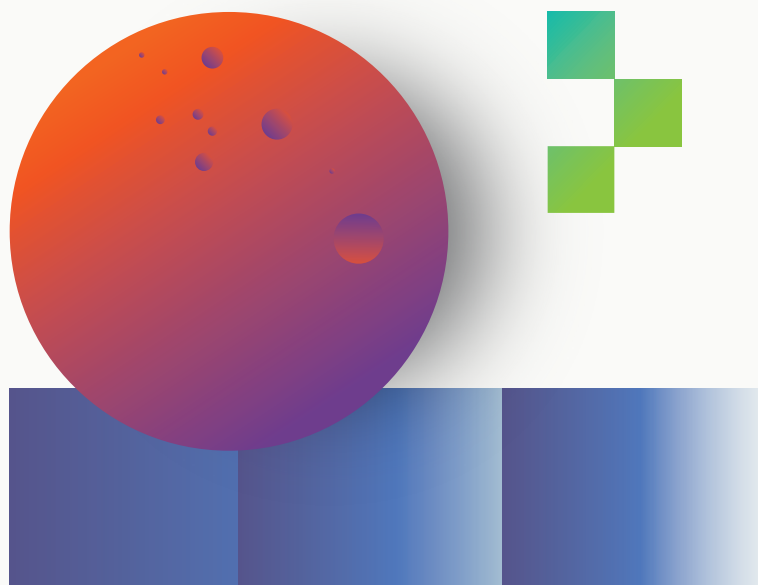
Yes










Cloud personnel

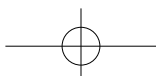
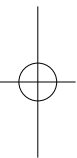
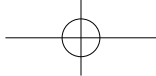
Créez facilement votre
cloud personnel
et accédez-y depuis
partout



	HS-453DX	TS-431K	
			
Model	HS-453DX-8G	TS-431K	
Operating System	QTS	QTS	
CPU	Intel® Celeron® J4115 4-core/4-thread processor, burst up to 2.5 GHz	AnnapurnaLabs, an Amazon company Alpine AL214, 4-core, 1.7GHz	
CPU Architecture	64-bit x86	32-bit ARM	
Graphic Processors	Intel® HD Graphics 600	-	
Floating Point Unit	Yes	Yes	
Encryption Engine	Yes (AES-NI)	Yes	
Hardware-accelerated Transcoding	Yes	-	
System Memory	8 GB SO-DIMM DDR4 (2 x 4 GB)	1GB DDR3	
Maximum Memory	8 GB (2 x 4 GB)	1GB DDR3	
Memory Slot	2 x SO-DIMM DDR4	-	
Drive Bay	2 x 3.5-inch SATA 6Gb/s, 3Gb/s	4x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 Slot	2 x M.2 2280 SATA 6Gb/s slots	-	
SSD Cache Acceleration Support	Yes	Yes	
Gigabit Ethernet Port (RJ45)	1	2	
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	-	-	
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	-	-	
10 Gigabit Ethernet Port	1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	-	
25 Gigabit Ethernet Port	-	-	
Thunderbolt Port	-	-	
PCIe Slot	-	-	
USB 2.0 port	2	-	
USB 3.2 Gen 1 port	3 (1 x USB-C, 2 x USB-A)	2	
USB 3.2 Gen 2 (10Gbps) Port	-	-	
HDMI Output	2, HDMI 2.0 (up to resolution 3840 x 2160 @ 60Hz) + HDMI 1.4b (up to 3840 x 2160 @ 30Hz)	-	
Form Factor	Set-top design	Tower	
Dimensions (HxWxD mm)	43.8 x 404 x 220	169 x 160 x 219	
Net Weight (kg)	2.4	2.01	
Operating temperature	0 - 35 °C (32°F - 95°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	External Power Adapter, 90W, 100-240V	90W Adapter, 100-240V	
Power Consumption (w): Operating Mode, Typical	22.38	26.57	
Fan	-	1 x 120mm, 12VDC	
Kensington Security Slot	-	Yes	



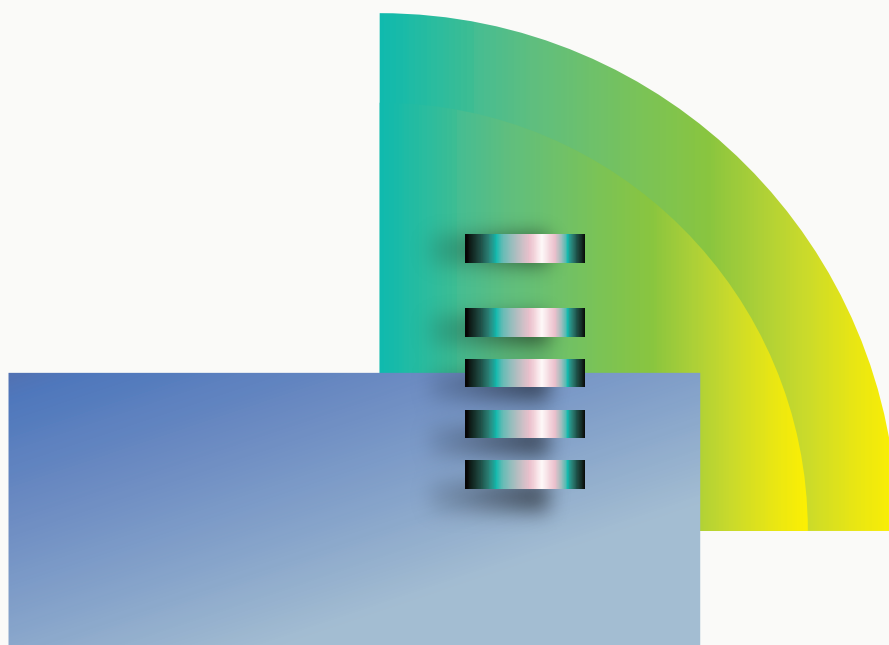
	TS-133	TS-233	TS-433
			
	TS-133	TS-233	TS-433-4G
	QTS	QTS	QTS
	ARM 4-core Cortex-A55 1.8GHz processor	ARM 4-core Cortex-A55 2.0GHz processor	ARM 4-core Cortex-A55 2.0GHz processor
	64-bit ARM	64-bit ARM	64-bit ARM
	-	-	-
	Yes	Yes	Yes
	Yes	Yes	Yes
	-	-	-
	2 GB on board (non-expandable)	2 GB on board (non-expandable)	4 GB on board (non-expandable)
	2 GB on board (non-expandable)	2 GB on board (non-expandable)	4 GB on board (non-expandable)
	-	-	-
	1 x 3.5-inch SATA 6Gb/s, 3Gb/s	2 x 3.5-inch SATA 6Gb/s, 3Gb/s	4x 3.5-inch SATA 6Gb/s, 3Gb/s
	-	Yes	Yes
	-	-	-
	-	-	-
	1	1	1
	-	-	1 (2.5G/1G/100M)
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	1	2	2
	1	1	1
	-	-	-
	-	-	-
	Tower	Tower	Tower
	187.5 x 66.1 x 157.6	188.64 x 90.18 x 156.26	169 x 160 x 219
	0.61	1.11	2.07
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	36W Adapter, 100-240V	65W adapter (12VDC), 100-240VAC	90W adapter (12VDC), 100-240VAC
	7.32	10.81	22.54
	1 x 50mm, 12VDC	1 x 80mm, 12VDC	1 x 120mm, 12VDC
	-	-	Yes





Boîtiers externes (DAS)


Extension de stockage flexible et rentable



	TL-D800C	TL-R1200C-RP
		
Model	TL-D800C	TL-R1200C-RP
Supported O.S.	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux
CPU	-	-
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	12 x 3.5-inch SATA 6Gb/s, 3Gb/s
Hot-swappable	-	-
Gigabit Ethernet Port (RJ45)	-	-
Audio Alert On/Off Switch	Yes	Yes
Form Factor	Tower	2U Rackmount
Host Interface	1 x USB 3.2 Gen 2 Type-C	1 x USB 3.2 Gen 2 Type-C
Dimensions (HxWxD mm)	188.2 x 329.3 x 281.4	88.6 x 482 x 562.5
Net Weight (kg)	6.18	11.03
Max. number of HDDs/ SSDs supported	8	12
Hard Drive Type	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	250W PSU, 100 - 240V	250W(x2) PSU, 100 - 240V
Power Consumption (w): Operating Mode, Typical	48.4	82.26
Fan Mode Switch	Yes (Auto, high, medium, low)	Yes (Auto, high, medium, low)
Fan	2 x 120mm, 12VDC	2 x 70mm, 12VDC
Kensington Security Slot	Yes	-
Management	-	-





TL-D400S		TL-D800S	
			
TL-D400S		TL-D800S	
QNAP QTS / QuTS hero, Windows, Mac, Linux		QNAP QTS / QuTS hero, Windows, Mac, Linux	
-		-	
4 x 3.5-inch SATA 6Gb/s, 3Gb/s		8 x 3.5-inch SATA 6Gb/s, 3Gb/s	
-		-	
-		-	
Yes		Yes	
Tower		Tower	
1 x SFF-8088		2 x SFF-8088	
168.5 x 160.2 x 219		188.2 x 329.3 x 279.6	
3.66		6.17	
4		8	
3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives		3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives	
0 - 40 °C (32°F - 104°F)		0 - 40 °C (32°F - 104°F)	
65W adapter, 100 - 240V		250W PSU, 100 - 240V	
22.985		51.606	
Yes (Auto, high, medium, low)		Yes (Auto, high, medium, low)	
1 x 120mm, 12VDC		2 x 120mm, 12VDC	
Yes		Yes	
-		-	

	TL-D1600S	TL-R400S	
			
Model	TL-D1600S	TL-R400S	
Supported O.S.	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux	
CPU	-	-	
Drive Bay	12 x 3.5-inch SATA 6Gb/s, 3Gb/s + 4 x 2.5-inch SATA 6Gb/s, 3Gb/s	4 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	-	-	
Gigabit Ethernet Port (RJ45)	-	-	
Audio Alert On/Off Switch	Yes	Yes	
Form Factor	Tower	1U Rackmount	
Host Interface	4 x SFF-8088	1 x SFF-8088	
Dimensions (HxWxD mm)	303.84 x 369.89 x 319.8	43.9 x 438.9 x 291.1	
Net Weight (kg)	11.59	3.98	
Max. number of HDDs/ SSDs supported	16	4	
Hard Drive Type	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives (for 3.5-inch tray slots only) 2.5-inch SATA solid state drives	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W PSU, 100 - 240V	100W PSU, 100 - 240V	
Power Consumption (w): Operating Mode, Typical	93.66	25.07	
Fan Mode Switch	Yes (Auto, high, medium, low)	Yes (Auto, high, medium, low)	
Fan	3 x 92mm, 12VDC	2 x 40mm, 12VDC	
Kensington Security Slot	Yes	Yes	
Management	-	-	





	TL-R1200S-RP	TL-R1220Sep-RP
		
	TL-R1200S-RP	TL-R1220Sep-RP
	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux
	-	-
	12 x 3.5-inch SATA 6Gb/s, 3Gb/s	12 x 3.5-inch SAS 12Gb/s, SAS/SATA 6Gb/s
	-	Yes
	-	-
	Yes	-
	2U Rackmount	2U Rackmount
	3 x SFF-8088	4 x 12Gb/s SAS 3.0 wide ports (4-wide port) Mini-SAS HD (SFF-8644)
	88.6 x 482 x 562.5	88.65 x 482.2 x 423.8
	9.49	9.19
	12	12
	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives	3.5" or 2.5" SAS 12Gb/s, SAS/SATA 6Gb/s and 3Gb/s drives
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	250W(x2) PSU, 100 - 240V	300W (x2), 100 - 240V
	73.7	163.38
	Yes (Auto, high, medium, low)	-
	2 x 70mm, 12VDC	2 x 80mm, 12VDC
	Yes	-
	-	Managed via QNAP QTS / QuTS hero OS 1. Supports disk S.M.A.R.T. information 2. RAID expansion enclosure identifier 3. Locate RAID expansion enclosures 4. Locate hard disks on RAID expansion enclosure 5. Smart fan control by detecting system and hard drive temperature 6. In-band SAS firmware update

	TL-R1620Sep-RP	TL-R1620Sdc	
			
Model	TL-R1620Sep-RP	TL-R1620Sdc	
Supported O.S.	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux	
CPU	-	-	
Drive Bay	16 x 3.5-inch SAS 12Gb/s, SAS/SATA 6Gb/s	16 x 3.5-inch SAS 12Gb/s, SAS/SATA 6Gb/s	
Hot-swappable	Yes	Yes	
Gigabit Ethernet Port (RJ45)	-	1 For console access and CLI.	
USB 3.2 Gen 1 port	-	-	
USB 3.2 Gen 2 (10Gbps) Port	-	-	
Audio Alert On/Off Switch	-	-	
Form Factor	3U Rackmount	3U Rackmount	
Host Interface	4 x 12Gb/s SAS 3.0 wide ports (4-wide port) Mini-SAS HD (SFF-8644)	3 x 12Gb/s SAS 3.0 wide ports (4-wide port) Mini-SAS HD (SFF-8644) for each controller	
Dimensions (HxWxD mm)	131.3 x 482.2 x 425.3	131.3 x 482.2 x 425.3	
Net Weight (kg)	11.48	12.26	
Max. number of HDDs/SSDs supported	16	16	
Hard Drive Type	3.5" or 2.5" SAS 12Gb/s, SAS/SATA 6Gb/s and 3Gb/s drives	3.5" or 2.5" SAS12Gb/s 6Gb/s drives	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	550W(x2), 100-240V	550W(x2), 100-240V	
Power Consumption (w): Operating Mode, Typical	207.13	212.24	
Fan Mode Switch	-	-	
Fan	3 x 80mm, 12VDC	3 x 80mm, 12VDC	
Kensington Security Slot	-	-	
Management	Managed via QNAP QTS / QuTS hero OS 1. Supports disk S.M.A.R.T. information 2. RAID expansion enclosure identifier 3. Locate RAID expansion enclosures 4. Locate hard disks on RAID expansion enclosure 5. Smart fan control by detecting system and hard drive temperature 6. In-band SAS firmware update	Managed via NAS QES OS and JBOD Manager for Windows	





	TR-002	TR-004	TR-004U
			
	TR-002	TR-004	TR-004U
	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux	
	Micro processor with hardware RAID	Micro processor with hardware RAID	Micro processor with hardware RAID
	2 x 3.5-inch SATA 6Gb/s, 3Gb/s	4 x 3.5-inch SATA 3Gb/s	4 x 3.5-inch SATA 3Gb/s
	Yes	Yes	Yes
	-	-	-
	-	1 x Type-C USB 3.0 (USB 3.2 Gen 1)	1 x Type-C USB 3.0 (USB 3.2 Gen 1)
	1 x Type-C USB 3.2 Gen 2 10Gbps	-	-
	-	-	-
	Tower	Tower	1U Rackmount
	-	-	-
	168.5 x 102 x 219	168.5 x 160.2 x 219	44 x 439 x 291
	1.37	1.85	4.03
	2	4	4
	2 x 2.5-inch or 3.5-inch SATA 6Gb/s	4 x 2.5-inch or 3.5-inch SATA 3Gb/s	4 x 2.5-inch or 3.5-inch SATA 3Gb/s
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	External Power Adapter, 36W, 100-240V	External Power Adapter, 65W, 100-240V	Open-frame 100W, Input: 100V-240V ~ / 3.5A, 50Hz-60Hz
	10.15	18.21	18.9
	-	-	-
	1 x 70mm, 12VDC	1 x 120mm, 12VDC	2 x 40mm, 12VDC
	Yes	Yes	Yes
	-	-	-

	TL-R1200PES-RP	TL-R1600PES-RP
		
Model	TL-R1200PES-RP	TL-R1600PES-RP
Supported O.S.	QNAP QTS / QuTS hero, Windows, Mac, Linux	QNAP QTS / QuTS hero, Windows, Mac, Linux
CPU	-	-
Drive Bay	12 x 3.5-inch SATA 6Gb/s	16 x 3.5-inch SATA 6Gb/s
Hot-swappable	Yes	Yes
USB 3.2 Gen 1 port	-	-
USB 3.2 Gen 2 (10Gbps) Port	-	-
Audio Alert On/Off Switch	-	-
Form Factor	2U Rackmount	3U Rackmount
Host Interface	Mini-SAS HD (SFF-8644) 1 x 2 (in, out)	Mini-SAS HD (SFF-8644) 1 x 2 (in, out)
Dimensions (HxWxD mm)	88.65x482.2x423.8	131.3x482.2x425.3
Net Weight (kg)	-	-
Max. number of HDDs/SSDs supported	12	16
Hard Drive Type	3.5" or 2.5" SATA 6Gb/s and 3Gb/s drives	3.5" or 2.5" SATA 6Gb/s and 3Gb/s drives
Operating Temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Power Supply Unit	300W (x2), 100 - 240V	550W(x2), 100-240V
Power Consumption (w): Operating Mode, Typical	-	-
Fan Mode Switch	-	-
Fan	2 x 80mm, 12VDC	3 x 80mm, 12VDC
Kensington Security Slot	-	-







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	QSW-M2106-4C	QSW-M2106-4S	
			
Model	QSW-M2106-4C	QSW-M2106-4S	
Management Type	Web Managed	Web Managed	
Management Port			
Power Supply Description	Adapter	Adapter	
Max. Power Consumption (w)	36W	16W	
Input Power Type	DC	DC	
Input Voltage Range	12V/3A	12V/3A	
MAC Address Table	16K	16K	
Total Non-Blocking Throughput	55Gbps	55Gbps	
Switching Capacity	110Gbps	110Gbps	
Management Interface	Web	Web	
Console	RJ45	RJ45	
Energy Efficient Ethernet (IEEE 802.3az complaint)	Yes	Yes	
Fan	PWM double ball bearing fan x 1	PWM double ball bearing fan x 1	
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service	
Number of Ports	10	10	
10GbE SFP+	-	4	
10GbE BASE-T (RJ45)	-	-	
10GbE SFP+/RJ45 Combo Ports	4	-	
2.5GbE (RJ45)	6	6	
1GbE (RJ45)	-	-	
Total PoE Ports	-	-	
PoE PSE (802.3af, 15.4W)	-	-	
PoE+ PSE (802.3at, 30W)	-	-	
PoE++ PSE (802.3bt, 90W)	-	-	
PoE Power Output	-	-	
Total PoE Power Budget	-	-	
Form Factor	Desktop	Desktop	
Dimensions (HxWxD mm)	42.5 x 290 x 127	42.5 x 290 x 127	





QSW-M2106R-2S2T		QSW-M2106PR-2S2T	
			
QSW-M2106R-2S2T		QSW-M2106PR-2S2T	
Web Managed		Web Managed	
Internal Power Supply Unit		Adapter	
40W		350W	
AC		AC	
100-240VAC, 50/60 Hz		100-240VAC, 50/60 Hz	
16K		16K	
55Gbps		55Gbps	
110Gbps		110Gbps	
Web		Web	
RJ45		RJ45	
Yes		Yes	
PWM VAPO Bearing fan x 2		PWM VAPO Bearing fan x 2	
IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service		IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3an 10G BASE-T IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af/at/bt Power-over-Ethernet (PoE)	
10		10	
2		2	
2		2	
-		-	
6		6	
-		-	
-		8	
-		port 1~8	
-		port 1~8	
-		port 1~8	
-		port 1~8 (90W)	
-		310W	
Rackmount		Rackmount	
43.3 x 207 x 248.8		43.3 x 207 x 248.8	



	QSW-M1208-8C	QSW-M1204-4C
		
Model	QSW-M1208-8C	QSW-M1204-4C
Management Type	Web Managed	Web Managed
Management Port	1 x 1GbE RJ45	1 x 1GbE RJ45
Power Supply Description	Internal Power Supply Unit	Internal Power Supply Unit
Max. Power Consumption (w)	70W	70W
Input Power Type	AC	AC
Input Voltage Range	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
MAC Address Table	16K	16K
Total Non-Blocking Throughput	120Gbps	120Gbps
Switching Capacity	240Gbps	240Gbps
Management Interface	Web	Web
Console	RS232	RS232
Energy Efficient Ethernet (IEEE 802.3az complaint)	Yes	Yes
Fan	System: 4 x 4 cm (12V)	System: 4 x 4 cm (12V)
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)
Number of Ports	12	12
10GbE SFP+	4	8
10GbE BASE-T (RJ45)	-	-
10GbE SFP+/RJ45 Combo Ports	8 Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).	4 Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).
2.5GbE (RJ45)	-	-
1GbE (RJ45)	-	-
Total PoE Ports	-	-
PoE PSE (802.3af, 15.4W)	-	-
PoE+ PSE (802.3at, 30W)	-	-
PoE++ PSE (802.3bt, 90W)	-	-
PoE Power Output	-	-
Total PoE Power Budget	-	-
Form Factor	-	-
Dimensions (HxWxD mm)	46.65 x 285 x 236.6	46.65 x 285 x 236.6
Net Weight (kg)	2.2	2.16


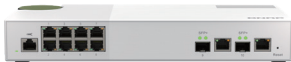


QSW-M804-4C		QSW-1208-8C	
			
QSW-M804-4C		QSW-1208-8C	
Web Managed		Unmanaged	
1 x 1GbE RJ45		-	
Internal Power Supply Unit		Internal Open Frame	
70W		50W	
AC		AC	
100-240VAC, 50/60Hz		100-240VAC, 50/60 Hz	
16K		27K	
80Gbps		120Gbps	
160Gbps		240Gbps	
Web		-	
RS232		-	
Yes		Yes	
System: 4 x 4 cm (12V)		System: 2 x 4 cm (12V DC)	
IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)		IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet IEEE 802.3an 10GBASE-T 10G Ethernet IEEE 802.3ae 10GBASE-SR IEEE 802.3ae 10GBASE-LR IEEE 802.3x Full-duplex flow control IEEE 802.3az Energy Efficient Ethernet	
8		12	
4		4 10G/1G	
-		-	
4 Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).		8 Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
-		Desktop	
46.65 x 285 x 236.6		43 x 285 x 233	
2.12		2.15	

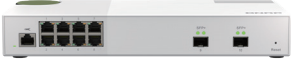

	QSW-2104-2T	QSW-2104-2S	
			
Model	QSW-2104-2T	QSW-2104-2S	
Management Type	Unmanaged	Unmanaged	
Management Port	-	-	
Power Supply Description	Adapter	Adapter	
Max. Power Consumption (w)	12W	12W	
Input Power Type	DC	DC	
Input Voltage Range	12V/1A	12V/1A	
MAC Address Table	16K	16K	
Total Non-Blocking Throughput	30Gbps	30Gbps	
Switching Capacity	60Gbps	60Gbps	
Management Interface	-	-	
Console	-	-	
Energy Efficient Ethernet (IEEE 802.3az complaint)	Yes	Yes	
Fan	-	-	
Supported Standards	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10GBase-T IEEE 802.3az Energy Efficient Ethernet (EEE)IEEE	IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10GBase-T IEEE 802.3az Energy Efficient Ethernet (EEE)IEEE SFP Transceiver 1000BASE-SX SFP Transceiver 1000BASE-LX SFP Transceiver 1000BASE-T Copper RJ45 GBIC	
Number of Ports	6	6	
10GbE SFP+	-	2	
10GbE BASE-T (RJ45)	2	-	
10GbE SFP+/RJ45 Combo Ports	-	-	
2.5GbE (RJ45)	4	4	
1GbE (RJ45)	-	-	
Total PoE Ports	-	-	
PoE PSE (802.3af, 15.4W)	-	-	
PoE+ PSE (802.3at, 30W)	-	-	
PoE++ PSE (802.3bt, 90W)	-	-	
PoE Power Output	-	-	
Total PoE Power Budget	-	-	
Form Factor	Desktop	Desktop	
Dimensions (HxWxD mm)	34 x 180 x145	34 x 180 x145	
Net Weight (kg)	0.722	0.713	



QSW-M408-4C		QSW-M408-2C	
			
QSW-M408-4C		QSW-M408-2C	
Web Managed		Web Managed	
-		-	
Adapter		Adapter	
31.46 W		22.04 W	
AC		AC	
100-240VAC, 50/60 Hz		100-240VAC, 50/60 Hz	
16K		16K	
48Gbps		48Gbps	
96Gbps		96Gbps	
Web		Web	
RJ45		RJ45	
Yes		Yes	
PWM double ball bearing fan x 1		PWM double ball bearing fan x 1	
IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service		IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service	
12		12	
-		2 10G/1G	
-		-	
4		2	
Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).		Note: The 10GbE SFP+ ports are backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M).	
-		-	
8		8	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
Desktop		Desktop	
42.5 x 290 x 127		42.5 x 290 x 127	
1.15		1.15	



	QSW-M408S	QSW-M2108-2C
		
Model	QSW-M408S	QSW-M2108-2C
Management Type	Web Managed	Web Managed
Management Port	-	-
Power Supply Description	Adapter	Adapter
Max. Power Consumption (w)	12.17 W	12.17 W
Input Power Type	AC	DC
Input Voltage Range	100-240VAC, 50/60 Hz	12V
MAC Address Table	16K	16K
Total Non-Blocking Throughput	48Gbps	40Gbps
Switching Capacity	96Gbps	80Gbps
Management Interface	Web	Web
Console	RJ45	RJ45
Energy Efficient Ethernet (IEEE 802.3az complaint)	Yes	Yes
Fan	PWM double ball bearing fan x 1	PWM double ball bearing fan x 1
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)
Number of Ports	12	10
10GbE SFP+	4 10G/1G	-
10GbE BASE-T (RJ45)	-	-
10GbE SFP+/RJ45 Combo Ports	-	2
2.5GbE (RJ45)	-	8
1GbE (RJ45)	8	-
Total PoE Ports	-	-
PoE PSE (802.3af, 15.4W)	-	-
PoE+ PSE (802.3at, 30W)	-	-
PoE++ PSE (802.3bt, 90W)	-	-
PoE Power Output	-	-
Total PoE Power Budget	-	-
Form Factor	Desktop	Desktop
Dimensions (HxWxD mm)	42.5 x 290 x 127	42.5 x 290 x 127
Net Weight (kg)	1.145	1.12





QSW-M2108-2S		QSW-M2108R-2C	
			
QSW-M2108-2S		QSW-M2108R-2C	
Web Managed		Web Managed	
-		-	
Adapter		Internal Power Supply Unit	
12.17 W		60W	
DC		AC	
12V		100-240VAC, 50/60 Hz	
16K		16K	
40Gbps		40Gbps	
80Gbps		80Gbps	
Web		Web	
RJ45		RJ45	
Yes		Yes	
PWM double ball bearing fan x 1		PWM double ball bearing fan x 1	
IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service		IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)	
10		10	
2		-	
-		-	
-		2	
8		8	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
-		-	
Desktop		Desktop	
42.5 x 290 x 127		43.3 x 207 x 199.5	
1.12		1.2	





Switches manageables et non-manageables

	QSW-308S	QSW-308-1C
		
Model	QSW-308S	QSW-308-1C
Management Type	Unmanaged	Unmanaged
Management Port	-	-
Power Supply Description	Adapter	Adapter
Max. Power Consumption (w)	36W	36W
Input Power Type	AC	AC
Input Voltage Range	100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz
MAC Address Table	16K	16K
Total Non-Blocking Throughput	38Gbps	38Gbps
Switching Capacity	76Gbps	76Gbps
Management Interface	-	-
Console	-	-
Energy Efficient Ethernet (IEEE 802.3az complaint)	-	-
Fan	Fanless	Fanless
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3an 10GBASE-T	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3an 10GBASE-T IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet
Number of Ports	11	11
10GbE SFP+	3 10G only Note: Compatibility issues with the Intel X520 ethernet network adapter might cause the ports to randomly switch between port up and port down status.	2 10G only Note: Compatibility issues with the Intel X520 ethernet network adapter might cause the ports to randomly switch between port up and port down status.
10GbE BASE-T (RJ45)	-	-
10GbE SFP+/RJ45 Combo Ports	-	1 Note1: The 10GbE SFP+ ports are not backward compatible with 1GbE SFP; the RJ45 (copper) combo port supports up to five speeds (10G/5G/2.5G/1G/100M). Note2: Compatibility issues with the Intel X520 ethernet network adapter might cause the ports to randomly switch between port up and port down status.
2.5GbE (RJ45)	-	-
1GbE (RJ45)	8	8
Total PoE Ports	-	-
PoE PSE (802.3af, 15.4W)	-	-
PoE+ PSE (802.3at, 30W)	-	-
PoE++ PSE (802.3bt, 90W)	-	-
PoE Power Output	-	-
Total PoE Power Budget	-	-
Form Factor	Desktop	Desktop
Dimensions (HxWxD mm)	42.5 x 290 x 127	42.5 x 290 x 127
Net Weight (kg)	0.74	0.77



QSW-IM1200-8C		QSW-M2116P-2T2S	
			
QSW-IM1200-8C		QSW-M2116P-2T2S	
Web Managed		Web Managed	
1 x 1GbE RJ45		-	
Adapter		Internal Power Supply Unit	
67W		350W	
DC		AC	
9V-54V		100-240VAC, 50/60 Hz	
16K		32K	
120Gbps		80Gbps	
240Gbps		160Gbps	
Web		Web	
RS232		RJ45	
Yes		Yes	
-		PWM double ball bearing fan x 2	
IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet (IEEE 802.1p Class of Service)		IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3an 10G BASE-T IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.1Q VLAN Tagging IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af/at/bt Power-over-Ethernet (PoE)	
12		20	
4		2	
-		2	
8		-	
-		16	
-		-	
-		18	
-		Port 1-16	
-		Port 1-16	
-		Port 19-20	
-		Port 1-16 (30W), Port 19-20 (90W)	
-		280W	
Rackmount		Rackmount	
43.5 x 285 x 238		43.5 x 285 x 234.8	
4.58		2.08	

	QSW-1105-5T
	
Model	QSW-1105-5T
Management Type	Unmanaged
Management Port	-
Power Supply Description	Adapter
Max. Power Consumption (w)	12 W
Input Power Type	DC
Input Voltage Range	12V
MAC Address Table	16K
Total Non-Blocking Throughput	12.5Gbps
Switching Capacity	25Gbps
Management Interface	-
Console	-
Energy Efficient Ethernet (IEEE 802.3az compliant)	-
Fan	Fanless
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5GBase-T IEEE 802.3x Full-Duplex Flow Control
Number of Ports	5
10GbE SFP+	-
10GbE BASE-T (RJ45)	-
10GbE SFP+/RJ45 Combo Ports	-
2.5GbE (RJ45)	5
1GbE (RJ45)	-
Total PoE Ports	-
PoE PSE (802.3af, 15.4W)	-
PoE+ PSE (802.3at, 30W)	-
PoE++ PSE (802.3bt, 90W)	-
PoE Power Output	-
Total PoE Power Budget	-
Form Factor	Desktop
Dimensions (HxWxD mm)	34 x 180 x 145
Net Weight (kg)	0.577


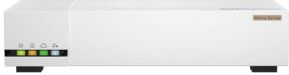

	QSW-M5216-1T
	
Management Type	Web Managed
Management Port	1 x 1GbE RJ45
Power Supply Description	Internal Power Supply Unit
Max. Power Consumption (w)	29.07W
Input Power Type	AC
Input Voltage Range	100-240VAC, 50/60 Hz
MAC Address Table	16K
Total Non-Blocking Throughput	410Gbps
Switching Capacity	820Gbps
Management Interface	Web
Console	RS232
Energy Efficient Ethernet (IEEE 802.3az compliant)	Yes
Fan	Yes
Supported Standards	IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBase-T IEEE 802.3an 10G BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10G Fiber IEEE 802.3x Full-Duplex Flow Control IEEE 802.3by 25 Gigabit Ethernet IEEE 802.1Q VLAN Tagging IEEE 802.1w RSTP IEEE 802.3ad LACP IEEE 802.1AB LLDP IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Class of Service Forward Error Correction(FEC)
Number of Ports	17
10GbE SFP+	-
25GbE SFP28	16
10GbE BASE-T (RJ45)	1
10GbE SFP+/RJ45 Combo Ports	-
2.5GbE (RJ45)	-
1GbE (RJ45)	-
Total PoE Ports	-
PoE PSE (802.3af, 15.4W)	-
PoE+ PSE (802.3at, 30W)	-
PoE++ PSE (802.3bt, 90W)	-
PoE Power Output	-
Total PoE Power Budget	-
Form Factor	Rackmount
Dimensions (HxWxD mm)	43.5 x 285 x 237.7
Net Weight (kg)	2.15





QNAP Router Series

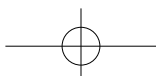
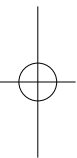
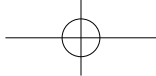
Profitez d'une expérience
de Wi-Fi maillé à haute
portée



	QHora-321	QHora-322	QHora-301W
			
Model	QHora-321	QHora-322	QHora-301W
Number of Ethernet Ports	6	9	6
10GbE BASE-T (RJ45)	-	3 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
2.5GbE (RJ45)	6	6	-
1GbE (RJ45)	-	-	4
CPU	Marvell CN9130 Quad Core Armv8 Cortex-A72	Marvell CN9130 Quad Core Armv8 Cortex-A72	Qualcomm IPQ8072A Hawkeye 2 Quad-core 2.2 GHz 64-bit CPU
Memory	4GB DDR4	4GB DDR4	1GB
Flash	4MB SPI NOR Flash 4GB eMMC	4MB SPI NOR Flash 4GB eMMC	4GB eMMC
Wireless Antenna	-	-	8 Internal Antennas
Wireless Antenna Type	-	-	8 Internal 5dBi Antennas
Antenna Gain 2.4 GHz	-	-	4.5dBi
Antenna Gain 5 GHz	-	-	5.2dBi
Transmission Power	-	-	24dBm
Wi-Fi 6 (802.11ax)	-	-	Yes
Wi-Fi 5 (802.11ac)	-	-	Yes
USB 3.2 Gen 1 port	-	1	2
USB 3.2 Gen 1 port_note	-	Only for connecting USB storage for FTP service on the router	Only for connecting USB storage for FTP service on the router
Button	Reset	Reset	Power, WPS, Reset
Power	12V DC	12V DC	12V DC
Power Consumption (w)	36W	36W	24W
Wireless Standard	-	-	802.11a/b/g/n/ac/ax
Wireless Speed Rating	-	-	AX3600
Wireless Speed 2.4 GHz	-	-	2.4G (1182Mbps): 4x4 (40MHz)
Wireless Speed 5 GHz	-	-	5G (2475Mbps): 4x4 (80MHz), 2x2 (160MHz)
Frequency Band 2.4 GHz	-	-	Yes , dual band
Frequency Band 5 GHZ	-	-	Yes , dual band
Wireless Bandwidth	-	-	20/40/80/160 MHz
Transmit Output Power	-	-	Depends on country code
Dimensions (HxWxD mm)	166.4 x 145.7 x 29.85	226 x 140 x 44.4	250×180×48
Weight	0.81Kg	1.08Kg	1.9kg
Packing weight	1.35Kg	1.61Kg	2.2kg
Operating Temperature	0°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C
Operating Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
Certifications	CE / FCC / VCCI / BSMI / RCM / CCC / UKCA	CE / FCC / VCCI / BSMI / RCM / CCC / UKCA	JATE / CE / FCC / BSMI / NCC / IC / SRRC / CCC / VCCI / RCM
QNAP SD-WAN solution, QuWAN	Yes	Yes	Yes

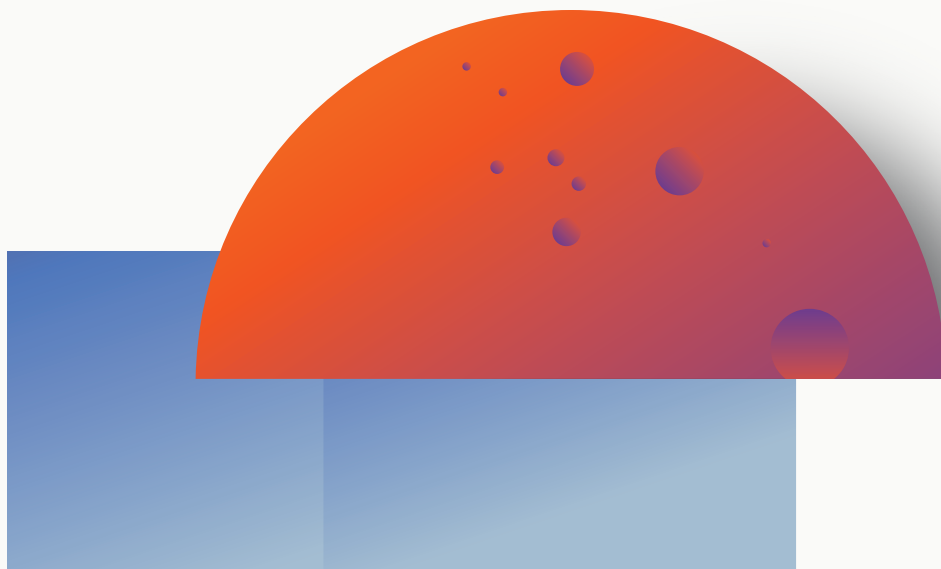




	QMiroPlus-201W	QMiro-201W
		
Model	QMiroPlus-201W	QMiro-201W
Number of Ethernet Ports	5	2
10GbE BASE-T (RJ45)	-	-
2.5GbE Host Port(RJ45)	1	-
1GbE (RJ45)	4	2
CPU	Router: Qualcomm IPQ4019, Quad 4cores ARM Cortex A7@716.8MHz NAS: Intel Gemini Lake J4125 4cores @2.0Ghz	Qualcomm IPQ4019, Quad 4core ARM Cortex A7@716.8MHz
Memory	Router: 512MB DDR3 NAS: 4GB DDR4	512MB DDR3
Flash	Router: 4MB SPI NOR Flash+4GB eMMC NAS:4GB eMMC	4MB SPI NOR Flash 4GB eMMC
Wireless Antenna	4 Internal Antennas	4 Internal Antennas
Wireless Antenna Type	2 Internal dual band(2.4G/5G) antennas 2 Internal single band(5G) antennas	2 Internal dual band(2.4G/5G) antennas 2 Internal single band(5G) antennas
Antenna Gain 2.4 GHz	2.5dBi, 2.6dBi	4.6dBi, 2.7dBi
Antenna Gain 5 GHz	4.6dBi, 4.4dBi	4.9dBi, 6.0dBi
Wi-Fi 6 (802.11ax)	-	-
Wi-Fi 5 (802.11ac)	Yes	Yes
USB 3.2 Gen 1 port	2	1
Bluetooth	Version 5	Version 5
Bluetooth Antenna Gain	3.42dBi	2.3dBi
Button	Power(for NAS), Reset, WPS	Reset, WPS
Power	12V DC	12V DC
Power Consumption (w)	60W	24W
Wireless Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Wireless Speed Rating	AC2200	AC2200
Wireless Speed 2.4 GHz	2.4G (400Mbps): 2x2 Dual Band(20/40MHz)	2.4G (400Mbps): 2x2 Dual Band(20/40MHz)
Wireless Speed 5 GHz	5G (867+867Mbps): 2x2 Dual Band(20/40/80MHz), 2x2 Single Band (20/40/80MHz)	5G (867+867Mbps): 2x2 Dual Band(20/40/80MHz), 2x2 Single Band(20/40/80MHz)
Frequency Band 2.4 GHz	Yes	Yes
Frequency Band 5 GHZ	Yes	Yes
Wireless Bandwidth	20/40/80MHz	20/40/80MHz
Transmit Output Power	Depends on country code	Depends on country code
Dimensions	183.5 x 105 x 143.5	68 x 100 x 175.5
Weight	1.44	0.44
Operating Temperature	0°C ~ +40°C	0°C ~ +40°C
Operating Humidity	5% to 95% non-condensing	5% to 95% non-condensing
Certifications	JATE / CE / FCC / BSMI / NCC / IC / SRRC / CCC / VCCI / RCM / OFCA	JATE / CE / FCC / BSMI / NCC / IC / SRRC / VCCI / RCM / OFCA
Wi-Fi Mesh	Yes (with Tri-Band)	Yes (with Tri-Band)
QNAP SD-WAN solution, QuWAN	Yes	Yes
Drive Bay	2 x 2.5-inch SATA 3Gb/s(Compatible with 6Gb/s SSD/HDD)	-

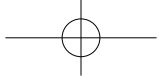




Solution QuWAN SD-WAN pour une infrastructure informatique résiliente





	QuCPE-3032	QuCPE-3034	
			
Model	QuCPE-3032-C3558R-8G	QuCPE-3034-C3758R-16G	
System	QNE Network	QNE Network	
CPU	Intel® Atom® C3558R 4-core 2.4 GHz processor	Intel® Atom® C3758R 8-core 2.4 GHz processor	
System Memory	8GB DDR4 2400MHz Non-ECC UDIMM(1 x 8 GB)	16GB DDR4 2400MHz Non-ECC UDIMM(2 x 8 GB)	
Maximum Memory	128GB (2x64GB)	128GB (2x64GB)	
Memory Slot	2 x 288pin DDR4-2400 slots	2 x 288pin DDR4-2400 slots	
Drive Bays	-	-	
PCIe Slot	-	-	
Console Port (RJ45)	1	1	
Fan	2 x 4cm Smart Fan	2 x 4cm Smart Fan	
M.2 SSD Slots	2 x M.2 2280 NVMe	2 x M.2 2280 NVMe	
USB 2.0 port	1 Type-A	1 Type-A	
USB 3.2 Gen 1 port	1 Type-A	1 Type-A	
Power	DC in, 60w	DC in, 60w	
Intel QAT support	Yes	Yes	
SR-IOV support	Yes	Yes	
Intel DPDK support	Yes	Yes	
Dimension W x D x H (mm)	285 x 237 x 46	285 x 237 x 46	
Total number of built-in and Pre-configured Ports	10	12	
10GbE SFP+	2	4	
2.5GbE (RJ45)	8	8	
Network Module Slot	-	-	
Form Factor	Desktop	Desktop	





QuCPE-7012



QuCPE-7012-D2166NT-64G	QuCPE-7012-D2146NT-32G	QuCPE-7012-D2123IT-8G
QNE Network		
Intel® Xeon® D-2166NT 12-core/ 24-thread 2.0GHz processor (16.6M Cache; up to 3.0 GHz)	Intel® Xeon® D-2146NT 8-core/ 16-thread 2.3GHz processor (11M Cache; burst up to 3.0GHz)	Intel® Xeon® D-2123IT 4C/8T (11M Cache, 2.20 GHz, up to 3GHz)
64GB DDR4 2666MHz ECC RDIMM (4 x 16GB)	32GB DDR4 2666MHz ECC RDIMM (2 x 16GB)	8GB DDR4 2666MHz ECC RDIMM (1 x 8GB)
128 GB (UDIMM) or 256GB (RDIMM)		
8 x Long-DIMM DDR4 DDR4 2133/2400MHz slots, up to 128 GB (UDIMM) or 256GB (RDIMM)		
2 x 2.5-inch SATA 6Gb/s, 3Gb/s		
1 x PCIe Gen 3 x8		
1		
3 x Cooling fans with smart fan		
-		
1		
1		
Redundant power 300W, 90V~264V AC		
Yes	Yes	
	Yes	
	Yes	
430 x 426 x 44.2		
12		
4		
8		
1		
Rackmount, 1U		



	QGD-1602P		
			
Model	QGD-1602P-C3758-16G	QGD-1602P-C3558-8G	
Management Type	Web Managed	Web Managed	
PCIe Slot	Slot 1: PCIe Gen3 (x4 slot, x2 speed) Slot 2: PCIe Gen3 (x4 slot, x2 speed)	Slot 1: PCIe Gen3 (x4 slot, x2 speed) Slot 2: PCIe Gen3 (x4 slot, x2 speed)	
USB 3.2 Gen 1 port	2	2	
USB 2.0 port	-	-	
Management Port	2 x 5GbE ; 2 x 1GbE	2 x 5GbE ; 2 x 1GbE	
USB 3.2 Gen 2 (10Gbps) Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
HDMI Output	-	-	
Power Supply Description	Internal Power Supply Unit	Internal Power Supply Unit	
Max. Power Consumption (w)	500W	280W	
Input Power Type	AC	AC	
Input Voltage Range	100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz	
MAC Address Table	32K	32K	
Total Non-Blocking Throughput	48Gbps	48Gbps	
Switching Capacity	96Gbps	96Gbps	
Management Interface	Web	Web	
Energy Efficient Ethernet (IEEE 802.3az complaint)	-	-	
Fan	System: 3 x 4 cm (12V DC)	System: 3 x 4 cm (12V DC)	
Supported Standards	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet IEEE 802.3an 10GBASE-T 10G Ethernet IEEE 802.3ae 10GBASE-SR IEEE 802.3ae 10GBASE-LR IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.3af/at/bt Power-over-Ethernet (PoE) IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet IEEE 802.3an 10GBASE-T 10G Ethernet IEEE 802.3ae 10GBASE-SR IEEE 802.3ae 10GBASE-LR IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.3af/at/bt Power-over-Ethernet (PoE) IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	
Number of Ports	18	18	
10GbE SFP+	2 10G/1G	2 10G/1G	
2.5GbE (RJ45)	8	8	
1GbE (RJ45)	8	8	
1GbE SFP/RJ45 Combo Ports	-	-	
Total PoE Ports	16	16	
PoE PSE (802.3af, 15.4W)	Ports 1-16	Ports 1-16	
PoE+ PSE (802.3at, 30W)	Ports 1-16	Ports 1-16	
PoE++ PSE (802.3bt, 60W)	-	-	
PoE++ PSE (802.3bt, 90W)	Ports 1-4	Ports 1-4	
PoE Power Output	Ports 1-4 (90W), Ports 5-16 (30W)	Ports 1-4 (90W), Ports 5-16 (30W)	
Total PoE Power Budget	370W	200W	
Form Factor	Rackmount	Rackmount	
Dimensions (HxWxD mm)	44.2 x 435.2 x 327.7	44.2 x 435.2 x 327.7	
Net Weight (kg)	4.37	4.37	



QGD-1600P		QGD-3014-16PT
		
QGD-1600P-8G	QGD-1600P-4G	QGD-3014-16PT-8G
Web Managed	Web Managed	Web Managed
Slot 1: PCIe Gen2 (x2) Slot 2: PCIe Gen2 (x2)	Slot 1: PCIe Gen2 (x2) Slot 2: PCIe Gen2 (x2)	-
1	1	3
2	2	-
1 x 1GbE	1 x 1GbE	2 x 2.5GbE
Optional via a PCIe adapter	Optional via a PCIe adapter	-
1	1	2
Internal Power Supply Unit	Internal Power Supply Unit	Internal Power Supply Unit
418W	418W	250W
AC	AC	AC
100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz
8K	8K	8K
16Gbps	16Gbps	16Gbps
32Gbps	32Gbps	32Gbps
Web	Web	Web
Yes	Yes	Yes
System: 2 x 4 cm (12V DC)	System: 2 x 4 cm (12V DC)	System: 12 x 12 cm (12V DC)
IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.3af/at/bt Power-over-Ethernet (PoE) IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.3af/at/bt Power-over-Ethernet (PoE) IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.3af/at Power-over-Ethernet (PoE) IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af/at Power-over-Ethernet (PoE)
16	16	16
-	-	-
-	-	-
14	14	14
2	2	2
16	16	16
Ports 1-16	Ports 1-16	Ports 1-16
Ports 1-16	Ports 1-16	Ports 1-16
Ports 1-4	Ports 1-4	-
-	-	-
Ports 1-4 (60W), Ports 5-16 (30W)	Ports 1-4 (60W), Ports 5-16 (30W)	Ports 1-16 (Max 30W)
360W	360W	140W
Rackmount	Rackmount	Desktop
47.2 x 436.2 x 326.2	47.2 x 436.2 x 326.2	130 x 295 x 224.8
4.41	4.41	4.08

QGD-1602



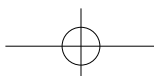
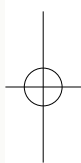
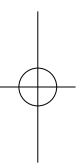
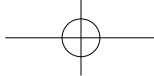
	QGD-1602		
			
Model	QGD-1602-C3558-8G	QGD-1602-C3758-16G	
Management Type	Web Managed	Web Managed	
PCIe Slot	Slot 1: PCIe Gen3 (x4 slot, x2 speed) Slot 2: PCIe Gen3 (x4 slot, x2 speed)	Slot 1: PCIe Gen3 (x4 slot, x2 speed) Slot 2: PCIe Gen3 (x4 slot, x2 speed)	
USB 3.2 Gen 1 port	2	2	
USB 2.0 port	-	-	
Management Port	2 x 5GbE ; 2 x 1GbE	2 x 5GbE ; 2 x 1GbE	
USB 3.2 Gen 2 (10Gbps) Port	Optional via a PCIe adapter	Optional via a PCIe adapter	
HDMI Output	-	-	
Power Supply Description	Internal Power Supply Unit	Internal Power Supply Unit	
Max. Power Consumption (w)	100W	100W	
Input Power Type	AC	AC	
Input Voltage Range	100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz	
MAC Address Table	32K	32K	
Total Non-Blocking Throughput	48Gbps	48Gbps	
Switching Capacity	96Gbps	96Gbps	
Management Interface	Web	Web	
Energy Efficient Ethernet (IEEE 802.3az complaint)	-	-	
Fan	System: 3 x 4 cm (12V DC)	System: 3 x 4 cm (12V DC)	
Supported Standards	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet IEEE 802.3an 10GBASE-T 10G Ethernet IEEE 802.3ae 10GBASE-SR IEEE 802.3ae 10GBASE-LR IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5G BASE-T Multi-Gig Ethernet IEEE 802.3an 10GBASE-T 10G Ethernet IEEE 802.3ae 10GBASE-SR IEEE 802.3ae 10GBASE-LR IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	
Number of Ports	18	18	
10GbE SFP+	2 10G/1G	2 10G/1G	
2.5GbE (RJ45)	8	8	
1GbE (RJ45)	8	8	
1GbE SFP/RJ45 Combo Ports	-	-	
Total PoE Ports	-	-	
PoE PSE (802.3af, 15.4W)	-	-	
PoE+ PSE (802.3at, 30W)	-	-	
PoE++ PSE (802.3bt, 60W)	-	-	
PoE++ PSE (802.3bt, 90W)	Ports 1-4	-	
PoE Power Output	-	-	
Total PoE Power Budget	-	-	
Form Factor	Rackmount	Rackmount	
Dimensions (HxWxD mm)	44.2, 435.2, 327.7	44.2, 435.2, 327.7	
Net Weight (kg)	4.37	4.37	

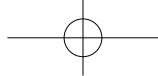


QGD-1600



QGD-1600-4G	QGD-1600-8G
Web Managed	Web Managed
Slot 1: PCIe Gen2 (x2) Slot 2: PCIe Gen2 (x2)	Slot 1: PCIe Gen2 (x2) Slot 2: PCIe Gen2 (x2)
1	1
2	2
1 x 1GbE	1 x 1GbE
Optional via a PCIe adapter	Optional via a PCIe adapter
1	1
Internal Power Supply Unit	Internal Power Supply Unit
100W	100W
AC	AC
100-240VAC, 50/60 Hz	100-240VAC, 50/60 Hz
8K	8K
16Gbps	16Gbps
32Gbps	32Gbps
Web	Web
Yes	Yes
System: 2 x 4 cm (12V DC)	System: 2 x 4 cm (12V DC)
IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization	IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000Base-X IEEE 802.3x Full-duplex flow control IEEE 802.1q Virtual LANs (VLAN) IEEE 802.1p QoS Protocol for Traffic Prioritization
16	16
-	-
-	-
14	14
2	2
16	16
Ports 1-16	Ports 1-16
Ports 1-16	Ports 1-16
Ports 1-4	-
-	-
Ports 1-4 (60W), Ports 5-16 (30W)	Ports 1-4 (90W), Ports 5-16 (30W)
360W	370W
Rackmount	Rackmount
47.2, 436.2, 326.2	47.2, 436.2, 326.2
4.41	4.41









Surveillance et vidéo intelligente


Solution intelligente de
surveillance IP et de
sauvegarde à distance de
nouvelle génération



	QVP-63B	QVP-85B	
			
Model	QVP-63B	QVP-85B	
Operating System	QVR Pro OS (QVP)	QVR Pro OS (QVP)	
CPU	Intel® Core™ i3 Processor	Intel® Core™ i5 Processor	
CPU Architecture	64-bit x86	64-bit x86	
Graphic Processors	Intel® UHD Graphics 630	Intel® UHD Graphics 630	
System Memory	16 GB SODIMM DDR4 (1 x 16 GB)	32 GB SODIMM DDR4 (2 x 16 GB)	
Maximum Memory	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	
Memory Slot	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4	
Drive Bay	6 x 3.5-inch SATA 6Gb/s, 3Gb/s	8 x 3.5-inch SATA 6Gb/s, 3Gb/s	
Hot-swappable	Yes	Yes	
M.2 SSD Slot	2 x M.2 2280 PCIe Gen4 x4 slots	2 x M.2 2280 PCIe Gen4 x4 slots	
Max Live Cameras (Local Display)	50ch @ All 720p,H.264, 30FPS 30ch @ All 1080p,H.264, 30FPS	56ch @ All 720p,H.264, 30FPS 34ch @ All 1080p,H.264, 30FPS	
Max Playback Cameras (Local Display)	16	16	
Max Concurrent Connection (Client)	16 (4 live cameras / per remote client) *The number of client concurrent connection varies by live cameras	16 (4 live cameras / per remote client) *The number of client concurrent connection varies by live cameras	
Embedded Channel	8	8	
Max Channel	36 H264 / 1920x1080 / 30FPS	64 H264 / 1920x1080 / 30FPS	
Max Throughput	1188 Mbps	1686 Mbps	
Gigabit Ethernet Port(RJ45)	-	-	
2.5 Gigabit Ethernet Port	2	2	
1GbE SFP/RJ45 Combo Ports	-	-	
PoE PSE (802.3af, 15.4W)	-	-	
PoE+ PSE (802.3at, 30W)	-	-	
PoE Power Output	-	-	
Total PoE Power Budget	-	-	
PCI slot	2 Slot 1: PCIe Gen 4 x16 Slot 2: PCIe Gen 4 x4	2 Slot 1: PCIe Gen 4 x16 Slot 2: PCIe Gen 4 x4	
USB 3.2 Gen 1 port	--	--	
USB 3.2 Gen 2 (10Gbps)Port	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	1 x Type-C USB 3.2 Gen 2 10Gbps 2 x Type-A USB 3.2 Gen 2 10Gbps	
HDMI Output	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI 1.4b (up to 4096 x 2160 @ 30Hz)	
Form Factor	Tower	Tower	
Dimensions (HxWxD mm)	188.2 x 264.3 x 280.8	188.2 x 329.3 x 280.8	
Net Weight (kg)	6.32	7.3	
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)	
Power Supply Unit	250W, 100-240V	250W, 100-240V	
Power Consumption (w): Operating Mode, Typical	79.363 With WD10EFRX drives fully populated	85.701 With WD10EFRX drives fully populated	
Fan	System fan: 2 x 92mm, 12VDC CPU fan: 2 x 60mm blower fan	System fan: 2 x 120mm, 12VDC CPU fan: 2 x 60mm blower fan	
Tray Locker	Yes	Yes	



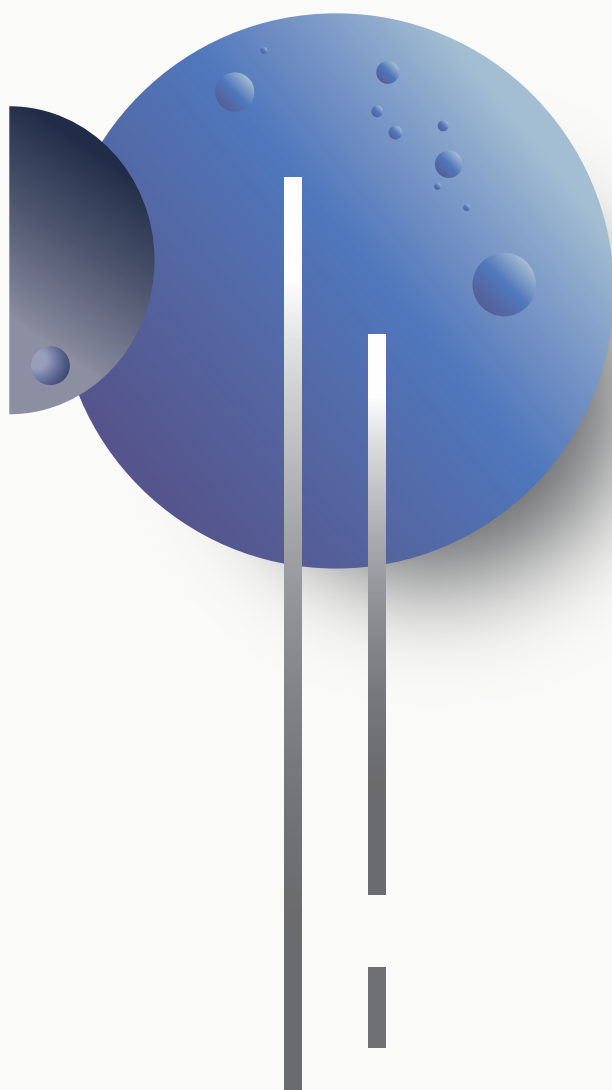
	QVP-63A	QVP-41B
		
	QVP-63A	QVP-41B
	QVR Pro OS (QVP)	QVR Pro OS (QVP)
	Intel® Core™ i3-8100T 4-core 3.1 GHz Processor	Intel Celeron® Processor
	64-bit x86	64-bit x86
	Intel® UHD Graphics 630	Intel® HD Graphics 600
	16 GB SODIMM DDR4 (2 x 8 GB)	8 GB SODIMM DDR4 (2 x 4 GB)
	32 GB (2 x 16 GB)	8 GB (2 x 4 GB)
	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4
	6 x 3.5-inch SATA 6Gb/s, 3Gb/s	4 x 3.5-inch SATA 6Gb/s, 3Gb/s
	Yes	Yes
	2 x M.2 2280 PCIe Gen3 x2 slots	2 x M.2 2280 SATA x2 slots
	32ch @ All 720p,H.264, 30FPS 16ch @ All 1080p,H.264, 30FPS	24ch @ All 720p,H.264, 30FPS 12ch @ All 1080p,H.264, 30FPS
	12	12
	16 (4 live cameras / per remote client) *The number of client concurrent connection varies by live cameras	8 (4 live cameras / per remote client) *The number of client concurrent connection varies by live cameras
	8	8
	36 H264 / 1920x1080 / 30FPS	24 H264 / 1920x1080 / 30FPS
	396 Mbps	288 Mbps
	2	14
	-	2
	-	2
	-	port 1-16
	-	port 1-16
	-	port 1-16 (Max 30W per port)
	-	140W
	2 Slot 1: PCIe Gen 3 x16 (CPU) Slot 2: PCIe Gen 3 x4 (PCH)	-
	1	3
	2 x Type-C USB 3.2 Gen2 5V/3A 10Gbps 2 x Type-A USB 3.2 Gen2 5V/1A 10Gbps	-
	1, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)	2, HDMI 2.0 (up to 3840 x 2160 @ 60Hz)
	Tower	Tower
	188.2 x 264.3 x 279.6	130 x 295 x 224.8
	6.553	4.08
	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
	250W, 100-240V	250W, 100-240V
	45.6	43.584
	System fan: 2 x 92mm, 12VDC CPU fan: 2 x 60mm blower fan	System fan: 120 x 120mm, 12VDC
	Yes	Yes

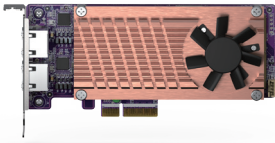
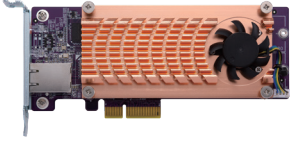
	<div>KoiBox-100W</div> <div></div>
Model	koibox-100w
Operating System	KoiMeeter
CPU	Intel® Celeron® dual-core 1.8GHz
System Memory	4GB DDR4
Flash Memory	M.2 2242 SSD 30GB
Drive Bay	1 x 2.5-inch SATA (HDD/SSD not included)
Gigabit Ethernet Port	1 x 1GbE RJ45
Wi-Fi / Bluetooth	Intel Wi-Fi 6 AX201, 802.11ax, Bluetooth 5.2
HDMI Output	1 x HDMI 1.4b output
USB Port	4 x USB 3.2 Gen 2 Type-A
IR sensor	Yes, supports remote controller (RM-IR004)
Buttons	1 x Power button
LED Indicators	Power status (On: blue, Standby: blue breathing light, Off: red)
Power Supply Unit	36W, 100-240V DC, 50/60Hz
Security Slot	1x Kensington security slot
Dimensions (H x W x D)	45 x 232 x 152
Net Weight	1.09 kg (2.4lbs)
Operating Temperature & Relative Humidity	0 ~ 40°C (32°F ~ 104°F) · 5 - 95% RH non-condensing

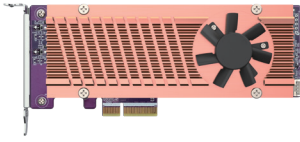
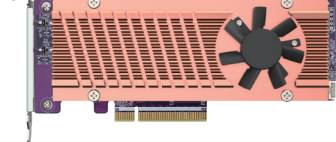



Accessoires

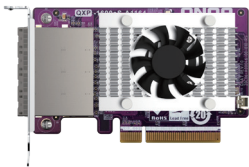
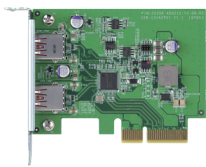
Des accessoires polyvalents
et riches en fonctionnalités
pour améliorer les
performances
de votre système

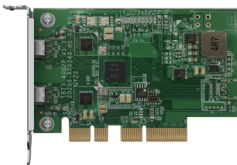
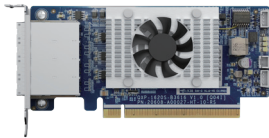


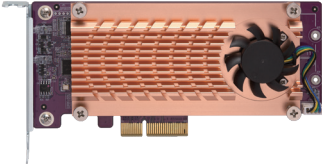
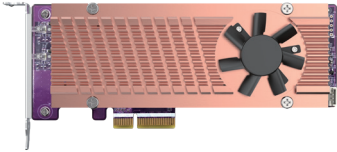
	QM2-2P2G2T	QM2-2P10G1TB	
			
Model	QM2-2P2G2T	QM2-2P10G1TB	
description	Dual M.2 2280 SATA SSD & dual-port 2.5GbE expansion card	Dual M.2 2280 PCIe NVMe SSD & single-port 10GbE expansion card	

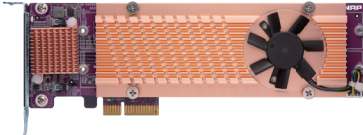

	QM2-2P-344A	QM2-2P-384A	
			
Model	QM2-2P-344A	QM2-2P-384A	
description	Dual M.2 22110/2280 PCIe NVMe SSD expansion card	Dual M.2 22110/2280 PCIe NVMe SSD expansion card	



	QDA-UMP4	QDA-U2MP	
			
Model	QDA-UMP4	QDA-U2MP	
description	Use an M.2 PCIe NVMe SSD in a U.2 PCIe NVMe SSD drive bay for PC and NAS	Use two M.2 PCIe NVMe SSD in a U.2 PCIe NVMe SSD drive bay for PC and NAS	

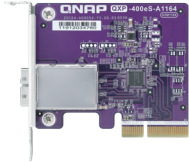
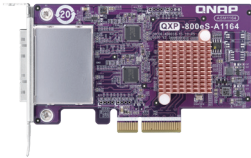
	QXP-1600eS-A1164	QXP-10G2U3A	
			
Model	QXP-1600eS-A1164	QXP-10G2U3A	
description	16-port SATA expansion card	USB 3.2 Gen 2 dual-port PCIe expansion card	

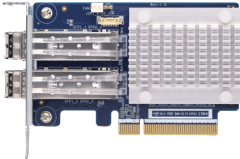
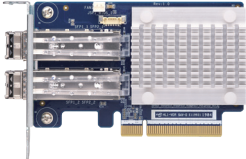
	QXP-T32P	QXP-1620S-B3616W	
			
Model	QXP-T32P	QXP-1620S-B3616W	
description	Dual-port Thunderbolt™ 3 Expansion Card	Quad-port External SAS 12Gb/s storage expansion card	

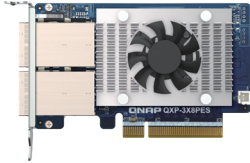
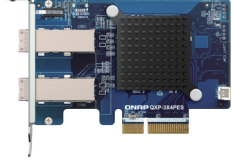
QM2-2S-220A	QM2-2P-244A
	
QM2-2S-220A	QM2-2P-244A
Dual M.2 22110/2280 SATA SSD expansion card	Dual M.2 22110/2280 PCIe NVMe SSD expansion card

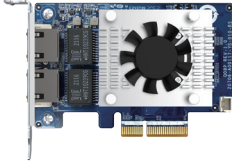
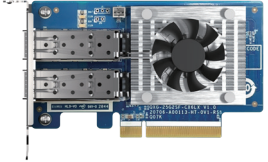
QM2-4S-240	QDA-SA3
	
QM2-4S-240	QDA-SA3
Dual M.2 22110/2280 SATA SSD expansion card	2.5-inch 6Gbps SAS to SATA drive adapter



QDA-A2AR	QDA-A2MAR
	
QDA-A2AR	QDA-A2MAR
Use two 2.5-inch SATA drives in a single 3.5-inch SATA drive bay with RAID support for PC and NAS	Use two M.2 SATA SSDs in a single 2.5-inch SATA drive bay with RAID support for PC and NAS


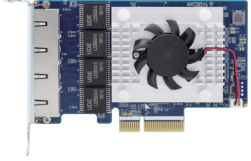
QXP-400eS-A1164	QXP-800eS-A1164
	
QXP-400eS-A1164	QXP-800eS-A1164
Quad-port SATA expansion card (1 x SFF-8088)	8-port SATA expansion card (2 x SFF-8088)


QXP-16G2FC	QXP-32G2FC
	
QXP-16G2FC	QXP-32G2FC
Dual-port 16Gb Enhanced Gen 5 Fibre Channel expansion card with SFP+ transceivers	Dual-port 32Gb Gen 6 Fibre Channel expansion card with SFP+ transceivers

	QXP-3X8PES	QXP-3X4PES	
			
Model	QXP-3X8PES	QXP-3X4PES	
description	Dual-port PCIe Gen 3 x8 expansion card	Dual-port PCIe Gen 3 x4 expansion card	

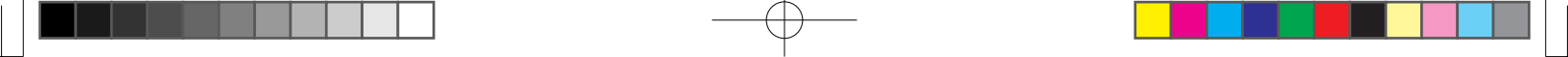
	QXG-10G2TB	QXG-25G2SF-CX6	
			
Model	QXG-10G2TB	QXG-25G2SF-CX6	
description	Dual-port, 5-speed 10 GbE network expansion card	Dual-port 25 GbE network expansion card	


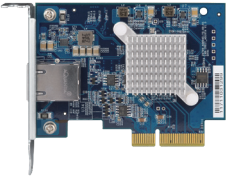
	QXG-2G1T-I225	QXG-2G2T-I225	
			
Model	QXG-2G1T-I225	QXG-2G2T-I225	
description	Single-port 2.5 GbE network expansion card	Dual-port 2.5 GbE network expansion card	

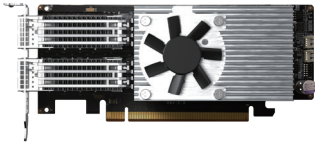
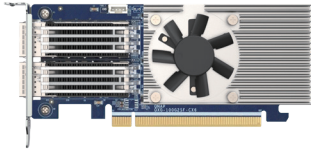
	QXG-5G2T-111C	QXG-5G4T-111C	
			
Model	QXG-5G2T-111C	QXG-5G4T-111C	
description	Dual-port, 4-speed 5 GbE network expansion card	Quad-port, 4-speed 5 GbE network expansion card	

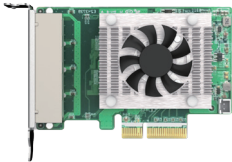

	QNA-UC5G1T	
		
Model	QNA-UC5G1T	
description	USB 3.2 Gen 1 to 5GbE Adapter	



*All specifications are subject to change without notice

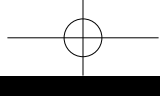


	QXP-W6-AX200	QXG-10G1T
		
	QXP-W6-AX200	QXG-10G1T
	2.4/5 GHz Dual Band Dual Concurrent (DBDC), 4 x 4 Multi-user MIMO (MU-MIMO), low-profile PCI Express (PCIe) 2.0 x1 wireless adapter	Single-port, 5-speed 10 GbE network expansion card

	QXG-100G2SF-E810	QXG-100G2SF-CX6
		
	QXG-100G2SF-E810	QXG-100G2SF-CX6
	Dual-port 100 GbE network expansion card	Dual-port 100 GbE network expansion card

	QXG-2G4T-I225	QXG-5G1T-111C
		
	QXG-2G4T-I225	QXG-5G1T-111C
	Quad-port 2.5 GbE network expansion card	Single-port, 4-speed 5 GbE network expansion card

	QNA-T310G1S	QNA-T310G1T
		
	QNA-T310G1S	QNA-T310G1T
	Single-port Thunderbolt 3 to single-port 10GbE SFP+	Single-port Thunderbolt 3 to single-port 10GbE NBASE-T RJ-45



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