

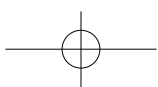


Product Selection Guide



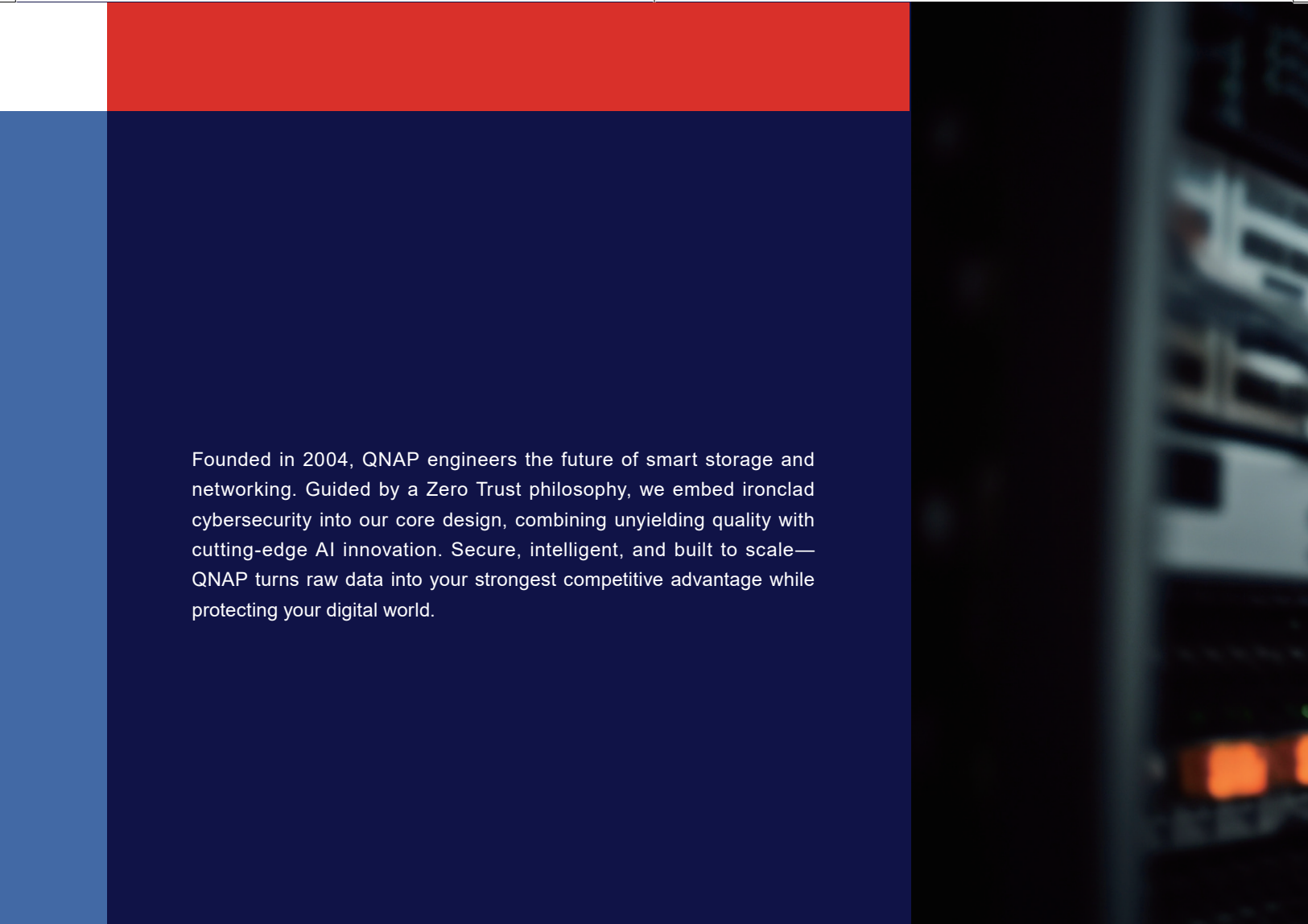
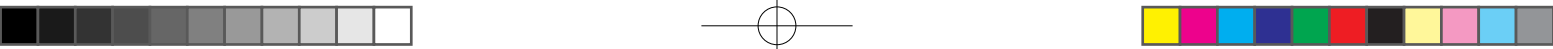
Contents

About QNAP	3
Enterprise Storage	6
Business Storage	24
Creators & Home Users	46
Expansion Unit	50
Networking	54
Accessories	64





About QNAP



Founded in 2004, QNAP engineers the future of smart storage and networking. Guided by a Zero Trust philosophy, we embed ironclad cybersecurity into our core design, combining unyielding quality with cutting-edge AI innovation. Secure, intelligent, and built to scale—QNAP turns raw data into your strongest competitive advantage while protecting your digital world.

Global Services

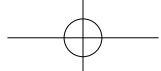
QNAP provides professional and stable services worldwide and ensures localized support.

19+

subsidiaries

50+

countries served worldwide



A Brand Trusted by Professionals



Products

We deliver integrated storage, networking, and smart surveillance solutions, combining advanced software and hardware to drive business digital transformation.



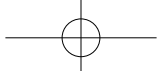
Long-term Availability

Our long-term commitment to supporting models ensures consistent NAS performance and streamlined management for long-term projects.



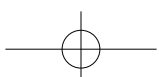
Warranty

Standard hardware repair and service are available for all QNAP products. An extended warranty is available for up to five years.



Enterprise Storage

Designed for modern data centers. Featuring scale-out storage, a high-availability architecture, the ZFS file system, and ultra-high-speed networking, QNAP enterprise NAS tackles massive data and AI computing challenges with ease.





Model Name	QSN-3050	QSN-3000
SKU	QSN-3050	QSN-3000
CPU	Intel® Xeon® E-2378 8C 16T 2.6 GHz, up to 4.8 GHz	Intel® Xeon® E-2336 6C 12T 2.9 GHz, up to 4.8 GHz
GPU	-	-
NPU (TOPS)	-	-
System RAM	128 GB ECC DDR4	128 GB ECC DDR4
Maximum RAM	128 GB (4 x 32 GB)	128 GB (4 x 32 GB)
RAM Slot	4 x ECC UDIMM DDR4	4 x ECC UDIMM DDR4
Backup Battery Unit	-	-
Drive Bay	24 x 3.5-inch SATA 6 x 2.5-inch SATA	12 x 3.5-inch SATA 6 x 2.5-inch SATA
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M) 2 x 10G/2.5G/1G/100M) 25GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M) 25GbE optional via a PCIe adapter
Thunderbolt Port	-	-
PCIe Slot	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8
USB Port	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A
HDMI Output	-	-
LCD Display/ Button	-	-
Power Supply Unit	800 W (x2) PSU, 100-240V	550 W PSU (x2) PSU, 100-240V
Form Factor	4U Rackmount	2U Rackmount
Dimensions (HxWxD)	176.2 x 441.6 x 630.2 mm 6.94 x 17.39 x 24.81 inch	88.6 x 432 x 511.2 mm 3.49 x 17.01 x 20.13 inch



Model Name	TDS-h6889AXU-RP	TDS-h6889AXU-RP	ES2486AFdc
SKU	TDS-h6889AXU-RP-12C-128G	TDS-h6889AXU-RP-12C-64G	ES2486AFdc-2142IT-128G
CPU	Intel® Xeon® Silver 12C/24T processor, up to 3.9 GHz	Intel® Xeon® Silver 12C/24T processor, up to 3.9 GHz	Intel® Xeon® D-2142IT 8-core 1.90 GHz processor, up to 3.0 GHz
GPU	-	-	-
NPU (TOPS)	-	-	-
System RAM	64 GB RDIMM DDR5 ECC per controller	32 GB RDIMM DDR5 ECC per controller	64 GB RDIMM DDR4 ECC per controller
Maximum RAM	4 TB	4 TB	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller
RAM Slot	8 x ECC R-DIMM DDR5 per controller	8 x ECC R-DIMM DDR5 per controller	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller
Backup Battery Unit	-	-	2
Drive Bay	60 x 3.5-inch SAS/SATA + 8 x 2.5-inch U.2 (6 NVMe Gen 4 + 2 SATA)	60 x 3.5-inch SAS/SATA + 8 x 2.5-inch U.2 (6 NVMe Gen 4 + 2 SATA)	24 x U.2/U.3 NVMe PCIe Gen4
M.2 Slot	-	-	-
LAN Port	3 x 1GbE RJ45 (one assigned for remote management) 2 x 25GbE SFP28	3 x 1GbE RJ45 (one assigned for remote management) 2 x 25GbE SFP28	3 x 2.5 GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller
Thunderbolt Port	-	-	-
PCIe Slot	5 x PCIe Gen5 x16 (one assigned for 25GbE SFP28) 1 x PCIe Gen5 x8 (HBA Default)	5 x PCIe Gen5 x16 (one assigned for 25GbE SFP28) 1 x PCIe Gen5 x8 (HBA Default)	2 x PCIe Gen 3 x8 (per controller)
USB Port	2 x USB 3.2 Gen1 Type-A	2 x USB 3.2 Gen1 Type-A	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)
HDMI Output	-	-	-
LCD Display/ Button	-	-	-
Power Supply Unit	800 W (x2) PSU	800 W (x2) PSU	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W
Form Factor	4U Rackmount	4U Rackmount	2U Rackmount
Dimensions (HxWxD)	400 × 586 × 1110 mm 15.75 x 23.07 x 43.7 inch	400 × 586 × 1110 mm 15.75 x 23.07 x 43.7 inch	88.3 x 483 x 525.18 mm 3.48 x 19.02 x 20.68 inch



ES1686Adc	ES2486dc	ES2486dc	ES1686dc R2
ES1686Adc-2142IT-128G	ES2486dc-2142IT-128G	ES2486dc-2142IT-96G	ES1686dc-R2-2142IT-128G
Intel® Xeon® D-2142IT 8-core 1.90 GHz processor, up to 3.0 GHz	Intel® Xeon® D-2142IT 8-core 1.90 GHz processor, up to 3.0 GHz	Intel® Xeon® D-2142IT 8-core 1.90 GHz processor, up to 3.0 GHz	Intel® Xeon® D-2142IT 8-core 1.9 GHz processor (burst up to 3.0 GHz) per controller
-	-	-	-
-	-	-	-
64 GB RDIMM DDR4 ECC per controller	64 GB RDIMM DDR4 ECC per controller	48 GB RDIMM DDR4 ECC per controller	64 GB RDIMM DDR4 ECC per controller
1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller
16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller
2	2	2	2
16 x 3.5-inch SAS / 2.5-inch dual port U.3 NVMe Gen4	24 x 2.5-inch SAS 12Gb/s	24 x 2.5-inch SAS 12Gb/s	16 x 3.5-inch SAS 12Gb/s 2.5- inch SAS
-	-	-	-
3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller	3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller	3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller	3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller
-	-	-	-
2 x PCIe Gen 3 x8 (per controller)	2 x PCIe Gen 3 x8 (per controller)	2 x PCIe Gen 3 x8 (per controller)	2 x PCIe Gen 3 x8 (per controller)
2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)
-	-	-	-
-	-	-	-
Redundant/ Hot Swap Power Vin: 90~264VAC;700 W	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W
3U Rackmount	2U Rackmount	2U Rackmount	3U Rackmount
132 x 446.2 x 588.1 mm 5.2 x 17.57 x 23.15 inch	88.3 x 446.2 x 504.1 mm 3.48 x 17.57 x 19.85 inch	88.3 x 446.2 x 504.1 mm 3.48 x 17.57 x 19.85 inch	132 x 446.2 x 587.75 mm 5.2 x 17.57 x 23.14 inch



Model Name	ES1686dc R2	ES1686dc R2	TDS-h2489FU R2
SKU	ES1686dc-R2-2142IT-96G	ES1686dc-R2-2123IT-64G	TDS-h2489FU-R2-4314-1T
CPU	Intel® Xeon® D-2142IT 8-core 1.9 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	2 x Intel® Xeon® Silver 4314 16-core/32-thread processor, up to 3.4 GHz
GPU	-	-	-
NPU (TOPS)	-	-	-
System RAM	48 GB RDIMM DDR4 ECC per controller	32 GB RDIMM DDR4 ECC per controller	1 TB RDIMM DDR4 ECC
Maximum RAM	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller	1024 GB (16 x 64 GB) 512 GB (8 x 64 GB) per controller	1 TB (32 x 32 GB)
RAM Slot	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller	16 x RDIMM/LRDIMM DDR4 8 x RDIMM/LRDIMM DDR4 per controller	32 x RDIMM DDR4 ECC (16 x slots per socket)
Backup Battery Unit	2	2	-
Drive Bay	16 x 3.5-inch SAS 12Gb/s 2.5-inch SAS	16 x 3.5-inch SAS 12Gb/s 2.5-inch SAS	16 x 2.5-inch U.2 PCIe NVMe 8 x 2.5-inch U.2 PCIe NVMe/ SATA
M.2 Slot	-	-	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA
LAN Port	3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller	3 x 2.5GbE RJ45 per controller (one assigned for remote management) 4 x 10GbE SFP+ per controller	4 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 3 x8 (per controller)	2 x PCIe Gen 3 x8 (per controller)	2 x PCIe Gen 4 x16(x8) 2 x PCIe Gen 4 x16 or x8
USB Port	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)	2 x USB 3.2 Gen 1 Type-A (USB ports for engineering only)	4 x USB 3.2 Gen 1 Type-A
HDMI Output	-	-	-
LCD Display/ Button	-	-	-
Power Supply Unit	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W	Redundant/ Hot Swap Power Vin: 90~264VAC;700 W	1200 W PSU(x2), 100-240Vac Max Wattage: 1200 W@200-240Vac 1000 W@100-127Vac
Form Factor	3U Rackmount	3U Rackmount	2U Rackmount
Dimensions (HxWxD)	132 x 446.2 x 587.75 mm 5.2 x 17.57 x 23.14 inch	132 x 446.2 x 587.75 mm 5.2 x 17.57 x 23.14 inch	88.3 x 446.2 x 713.2 mm 3.48 x 17.57 x 28.08 inch



TDS-h2489FU R2	TDS-h2489FU R2	TDS-h2489FU R2	TDS-h2489FU R2
TDS-h2489FU-R2-4314-512G	TDS-h2489FU-R2-4314-256G	TDS-h2489FU-R2-4314-128G	TDS-h2489FU-R2-4309Y-64G
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	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
-	-	-	-
-	-	-	-
512 GB RDIMM DDR4 ECC	256 GB RDIMM DDR4 ECC	128 GB RDIMM DDR4 ECC	64 GB RDIMM DDR4 ECC
1 TB (32 x 32 GB)	1 TB (32 x 32 GB)	1 TB (32 x 32 GB)	1 TB (32 x 32 GB)
32 x RDIMM DDR4 ECC (16 x slots per socket)	32 x RDIMM DDR4 ECC (16 x slots per socket)	32 x RDIMM DDR4 ECC (16 x slots per socket)	32 x RDIMM DDR4 ECC (16 x slots per socket)
-	-	-	-
16 x 2.5-inch U.2 PCIe NVMe 8 x 2.5-inch U.2 PCIe NVMe/ SATA	16 x 2.5-inch U.2 PCIe NVMe 8 x 2.5-inch U.2 PCIe NVMe/ SATA	16 x 2.5-inch U.2 PCIe NVMe 8 x 2.5-inch U.2 PCIe NVMe/ SATA	16 x 2.5-inch U.2 PCIe NVMe 8 x 2.5-inch U.2 PCIe NVMe/ SATA
2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA
4 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	4 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	4 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	4 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports
-	-	-	-
2 x PCIe Gen 4 x16(x8) 2 x PCIe Gen 4 x8	2 x PCIe Gen 4 x16 or x8 2 x PCIe Gen 4 x8	2 x PCIe Gen 4 x16 or x8 2 x PCIe Gen 4 x8	2 x PCIe Gen 4 x16 or x8 2 x PCIe Gen 4 x8
4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A
-	-	-	-
-	-	-	-
1200 W PSU(x2), 100-240Vac Max Wattage: 1200 W@200-240Vac 1000 W@100-127Vac	1200 W PSU(x2), 100-240Vac Max Wattage: 1200 W@200-240Vac 1000 W@100-127Vac	1200 W PSU(x2), 100-240Vac Max Wattage: 1200 W@200-240Vac 1000 W@100-127Vac	1200 W PSU(x2), 100-240Vac Max Wattage: 1200 W@200-240Vac 1000 W@100-127Vac
2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
88.3 x 446.2 x 713.2 mm 3.48 x 17.57 x 28.08 inch	88.3 x 446.2 x 713.2 mm 3.48 x 17.57 x 28.08 inch	88.3 x 446.2 x 713.2 mm 3.48 x 17.57 x 28.08 inch	88.3 x 446.2 x 713.2 mm 3.48 x 17.57 x 28.08 inch



Model Name	TS-h2490FU	TS-h2490FU	TS-h2490FU
SKU	TS-h2490FU-7302P-256G	TS-h2490FU-7302P-128G	TS-h2490FU-7302P-64G
CPU	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz
GPU	-	-	-
NPU (TOPS)	-	-	-
System RAM	256 GB RDIMM DDR4 ECC	128 GB RDIMM DDR4 ECC	64 GB RDIMM DDR4 ECC
Maximum RAM	4 TB (16 x 256 GB)	4 TB (16 x 256 GB)	4 TB (16 x 256 GB)
RAM Slot	16 x RDIMM DDR4	16 x RDIMM DDR4	16 x RDIMM DDR4
Backup Battery Unit	-	-	-
Drive Bay	24 x 2.5-inch U.2 PCIe NVMe	24 x 2.5-inch U.2 PCIe NVMe	24 x 2.5-inch U.2 PCIe NVMe
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 4 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 4 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 4 x 25GbE SFP28 SmartNIC ports
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4 1 x PCIe Gen 4 x8 1 x PCIe Gen 4 x16 or x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4 1 x PCIe Gen 4 x8 1 x PCIe Gen 4 x16 or x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4 1 x PCIe Gen 4 x8 1 x PCIe Gen 4 x16 or x8
USB Port	2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A
HDMI Output	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
LCD Display/ Button	-	-	-
Power Supply Unit	1100 W PSU(x2), 100-240Vac, Max Wattage: 1100 W@200-240Vac 850 W@100-240Vac	1100 W PSU(x2), 100-240Vac, Max Wattage: 1100 W@200-240Vac 850 W@100-240Vac	1100 W PSU(x2), 100-240Vac, Max Wattage: 1100 W@200-240Vac 850 W@100-240Vac
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount
Dimensions (HxWxD)	88.3 x 480.97 x 510.23 mm 3.48 x 18.94 x 20.09 inch	88.3 x 480.97 x 510.23 mm 3.48 x 18.94 x 20.09 inch	88.3 x 480.97 x 510.23 mm 3.48 x 18.94 x 20.09 inch



TS-h2490FU	TS-h2490FU	TS-h1090FU	TS-h1090FU
TS-h2490FU-7232P-64G	TS-h2490FU-7232P-32G	TS-h1090FU-7302P-256G	TS-h1090FU-7302P-128G
AMD EPYC™ 7232P/7252 8-core/16-thread processor, up to 3.2 GHz	AMD EPYC™ 7232P/7252 8-core/16-thread processor, up to 3.2 GHz	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz
-	-	-	-
-	-	-	-
64 GB RDIMM DDR4 ECC	32 GB RDIMM DDR4 ECC	256 GB RDIMM DDR4 ECC	128 GB RDIMM DDR4 ECC
4 TB (16 x 256 GB)	4 TB (16 x 256 GB)	1 TB+ (12 x 128 GB)	1 TB+ (12 x 128 GB)
16 x RDIMM DDR4	16 x RDIMM DDR4	12 x RDIMM DDR4	12 x RDIMM DDR4
-	-	-	-
24 x 2.5-inch U.2 PCIe NVMe	24 x 2.5-inch U.2 PCIe NVMe	10 x 2.5-inch U.2 PCIe NVMe / SATA	10 x 2.5-inch U.2 PCIe NVMe / SATA
Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
2 x 2.5GbE (2.5G/1G/100M/10M) 4 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 4 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports
-	-	-	-
2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4 1 x PCIe Gen 4 x8 1 x PCIe Gen 4 x16 or x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4 1 x PCIe Gen 4 x8 1 x PCIe Gen 4 x16 or x8	2 x PCIe Gen 4 x16	2 x PCIe Gen 4 x16
2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A
-	-	-	-
-	-	-	-
1100 W PSU(x2), 100-240Vac, Max Wattage: 1100 W@200-240Vac 850 W@100-240Vac	1100 W PSU(x2), 100-240Vac, Max Wattage: 1100 W@200-240Vac 850 W@100-240Vac	550 W PSU (x2), AC 100-240 V	550 W PSU (x2), AC 100-240 V
2U Rackmount	2U Rackmount	1U Rackmount	1U Rackmount
88.3 x 480.97 x 510.23 mm 3.48 x 18.94 x 20.09 inch	88.3 x 480.97 x 510.23 mm 3.48 x 18.94 x 20.09 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch



Model Name	TS-h1090FU	TS-h1090FU	TS-h1090FU
SKU	TS-h1090FU-7302P-64G	TS-h1090FU-7232P-64G	TS-h1090FU-7232P-32G
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	AMD EPYC™ 7232P/7252 8-core/16-thread processor, up to 3.2 GHz
GPU	-	-	-
NPU (TOPS)	-	-	-
System RAM	64 GB RDIMM DDR4 ECC	64 GB RDIMM DDR4 ECC	32 GB RDIMM DDR4 ECC
Maximum RAM	1 TB+ (12 x 128 GB)	1 TB+ (12 x 128 GB)	1 TB+ (12 x 128 GB)
RAM Slot	12 x RDIMM DDR4	12 x RDIMM DDR4	12 x RDIMM DDR4
Backup Battery Unit	-	-	-
Drive Bay	10 x 2.5-inch U.2 PCIe NVMe / SATA	10 x 2.5-inch U.2 PCIe NVMe / SATA	10 x 2.5-inch U.2 PCIe NVMe / SATA
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 4 x16	2 x PCIe Gen 4 x16	2 x PCIe Gen 4 x16
USB Port	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A
HDMI Output	-	-	-
LCD Display/ Button	-	-	-
Power Supply Unit	550 W PSU (x2), AC 100-240 V	550 W PSU (x2), AC 100-240 V	550 W PSU (x2), AC 100-240 V
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount
Dimensions (HxWxD)	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch



QAI-h1290FX	TS-h1290FX	TS-h1290FX	TS-h1290FX
QAI-h1290FX-7302P-128G	TS-h1290FX-7302P-256G	TS-h1290FX-7302P-128G	TS-h1290FX-7232P-64G
AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz	AMD EPYC™ 7302P 16-core/32-thread processor, up to 3.3 GHz	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
-	-	-	-
-	-	-	-
128 GB RDIMM DDR4 ECC	256 GB RDIMM DDR4 ECC	128 GB RDIMM DDR4 ECC	64 GB RDIMM DDR4 ECC
1 TB (8 x 128 GB)	1 TB (8 x 128 GB)	1 TB (8 x 128 GB)	1 TB (8 x 128 GB)
8 x RDIMM DDR4	8 x RDIMM DDR4	8 x RDIMM DDR4	8 x RDIMM DDR4
-	-	-	-
12 x 2.5-inch U.2 PCIe NVMe / SATA	12 x 2.5-inch U.2 PCIe NVMe / SATA	12 x 2.5-inch U.2 PCIe NVMe / SATA	12 x 2.5-inch U.2 PCIe NVMe / SATA
Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 25GbE SFP28 SmartNIC ports
-	-	-	-
3 x PCIe Gen 4 x16 1 x PCIe Gen 4 x8	3 x PCIe Gen 4 x16 1 x PCIe Gen 4 x8	3 x PCIe Gen 4 x16 1 x PCIe Gen 4 x8	3 x PCIe Gen 4 x16 1 x PCIe Gen 4 x8
3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A
Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
V	V	V	V
750 W, 100-240V	750 W, 100-240V	750 W, 100-240V	750 W, 100-240V
Tower	Tower	Tower	Tower
150 x 368 x 362 mm 5.91 x 14.49 x 14.25 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch



Model Name	TS-h3081XU-RP	TS-h2281XU-RP	TS-h1881XU-RP
SKU	TS-h3081XU-RP-10C-16G	TS-h2281XU-RP-10C-16G	TS-h1881XU-RP-10C-16G
CPU	Intel Core 7 253PE 10-core processor, up to 4.8 GHz	Intel Core 7 253PE 10-core processor, up to 4.8 GHz	Intel Core 7 253PE 10-core processor, up to 4.8 GHz
GPU	-	-	-
NPU (TOPS)	-	-	-
System RAM	16 GB ECC DDR5	16 GB ECC DDR5	16 GB ECC DDR5
Maximum RAM	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)
RAM Slot	4 x DDR5 Long-DIMM ECC	4 x DDR5 Long-DIMM ECC	4 x DDR5 Long-DIMM ECC
Backup Battery Unit	-	-	-
Drive Bay	24 x 3.5-inch SATA 6 x 2.5-inch U.2 NVMe	16 x 3.5-inch SATA 6 x 2.5-inch U.2 NVMe	16 x 3.5-inch SATA 6 x 2.5-inch U.2 NVMe
M.2 Slot	-	-	-
LAN Port	2 x 25GbE SFP28 2 x 2.5GbE RJ45	2 x 25GbE SFP28 2 x 2.5GbE RJ45	2 x 25GbE SFP28 2 x 2.5GbE RJ45
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 5 x8 1 x PCIe Gen 3 x4	2 x PCIe Gen 5 x8 1 x PCIe Gen 3 x4	2 x PCIe Gen 5 x8 1 x PCIe Gen 3 x4
USB Port	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
LCD Display/ Button	-	-	-
Power Supply Unit	800 W (x2) CRPS PSU, 100-240V	550 W PSU (x2) CRPS PSU, 100-240V	550 W PSU (x2) CRPS PSU, 100-240V
Form Factor	4U Rackmount	3U Rackmount	2U Rackmount
Dimensions (HxWxD)	176.2 x 441.6 x 630.2 mm 6.94 x 17.39 x 24.81 inch	131.3 x 432 x 511.5 mm 5.17 x 17.01 x 20.14 inch	88.6 x 432 x 511.2 mm 3.49 x 17.01 x 20.13 inch



TS-h3087XU-RP	TS-h2287XU-RP	TS-h2287XU-RP	TS-h1887XU-RP
TS-h3087XU-RP-E2378-64G	TS-h2287XU-RP-E2378-64G	TS-h2287XU-RP-E2336-32G	TS-h1887XU-RP-E2336-32G
Intel® Xeon® E-2378 8C 16T 2.6 GHz, up to 4.8 GHz	Intel® Xeon® E-2378 8C 16T 2.6 GHz, up to 4.8 GHz	Intel® Xeon® E-2336 6C 12T 2.9 GHz, up to 4.8 GHz	Intel® Xeon® E-2336 6C 12T 2.9 GHz, up to 4.8 GHz
Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
-	-	-	-
64 GB ECC DDR4	64 GB ECC DDR4	32 GB ECC DDR4	32 GB ECC DDR4
128 GB (4 x 32 GB)	128 GB (4 x 32 GB)	128 GB (4 x 32 GB)	128 GB (4 x 32 GB)
4 x ECC UDIMM DDR4	4 x ECC UDIMM DDR4	4 x ECC UDIMM DDR4	4 x ECC UDIMM DDR4
-	-	-	-
24 x 3.5-inch SATA 6 x 2.5-inch SATA	16 x 3.5-inch SATA 6 x 2.5-inch SATA	16 x 3.5-inch SATA 6 x 2.5-inch SATA	12 x 3.5-inch SATA 6 x 2.5-inch SATA
Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
-	-	-	-
2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8
4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A
Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
-	-	-	-
800 W (x2) PSU	550 W PSU (x2) PSU	550 W PSU (x2) PSU	550 W PSU (x2) PSU
4U Rackmount	3U Rackmount	3U Rackmount	2U Rackmount
176.2 x 441.6 x 630.2 mm 6.94 x 17.39 x 24.81 inch	131.3 x 432 x 511.5 mm 5.17 x 17.01 x 20.14 inch	131.3 x 432 x 511.5 mm 5.17 x 17.01 x 20.14 inch	88.6 x 432 x 511.2 mm 3.49 x 17.01 x 20.13 inch



Model Name	TS-h1887XU-RP	TS-h987XU-RP	TS-h3077AFU
SKU	TS-h1887XU-RP-E2334-16G	TS-h987XU-RP-E2334-16G	TS-h3077AFU-R7-64G
CPU	Intel® Xeon® E-2334 4C 8T 3.4 GHz, up to 4.8 GHz	Intel® Xeon® E-2334 4C 8T 3.4 GHz, up to 4.8 GHz	AMD Ryzen™ 7 7000 series 8-core/16-thread processor, burst up to 5.3 GHz
GPU	Optional via a PCIe adapter	-	AMD Radeon™ Graphics
NPU (TOPS)	-	-	-
System RAM	16 GB ECC DDR4	16 GB ECC DDR4	64 GB UDIMM DDR5
Maximum RAM	128 GB (4 x 32 GB)	128 GB (4 x 32 GB)	192 GB (4 x 48 GB)
RAM Slot	4 x ECC UDIMM DDR4	4 x ECC UDIMM DDR4	4 x UDIMM DDR5 Supports optional ECC memory
Backup Battery Unit	-	-	-
Drive Bay	12 x 3.5-inch SATA 6 x 2.5-inch SATA	4 x 3.5-inch SATA / 2.5-inch SATA 5 x 2.5-inch U.2 PCIe / SATA	30 x 2.5-inch SATA
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8	1 x Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4
USB Port	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A
HDMI Output	Optional via a PCIe graphics card	-	Optional via a PCIe graphics card
LCD Display/ Button	-	-	-
Power Supply Unit	550 W PSU (x2) PSU	300 W (x2) PSU	550 W PSU (x2), 100-240V
Form Factor	2U Rackmount	1U Rackmount	2U Rackmount
Dimensions (HxWxD)	88.6 x 432 x 511.2 mm 3.49 x 17.01 x 20.13 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	88.3 x 442.6 x 485.2 mm 3.48 x 17.43 x 19.1 inch



TS-h3077AFU	TS-h1077AFU	TS-h2477AXU-RP	TS-h2477AXU-RP
TS-h3077AFU-R5-32G	TS-h1077AFU-R7-32G	TS-h2477AXU-RP-R7-32G	TS-h2477AXU-RP-R7D-24H05
AMD Ryzen™ 5 7000 series 6-core/12-thread processor, burst up to 5.1 GHz	AMD Ryzen™ 7 7000 series 8-core/16-thread processor, burst up to 5.3 GHz	AMD Ryzen™ 7 Pro 7000 series 8-core/16-thread processor, burst up to 5.3 GHz	AMD Ryzen™ 7 Pro 7000 series 8-core/16-thread processor, burst up to 5.3 GHz
AMD Radeon™ Graphics	AMD Radeon™ Graphics	AMD Radeon™ Graphics	AMD Radeon™ Graphics
-	-	-	-
32 GB UDIMM DDR5	32 GB ECC UDIMM DDR5	32 GB UDIMM DDR5	32 GB UDIMM DDR5
192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)
4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5	4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5 Supports optional ECC memory
-	-	-	-
30 x 2.5-inch SATA	10 x 2.5-inch SATA	24 x 3.5-inch / 2.5-inch SATA	24 x 3.5-inch / 2.5-inch SATA
Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	2 x M.2 2280 PCIe Gen 5 x2 slots	2 x M.2 2280 PCIe Gen 5 x2 slots
2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
-	-	-	-
2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4	2 x PCIe Gen 4 x8	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4
2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A
Optional via a PCIe graphics card	-	Optional via a PCIe graphics card	Optional via a PCIe graphics card
-	-	-	-
550 W PSU (x2), 100-240V	350 W PSU (x2), AC 100-240 V	800 W(x2), 100-240V	800 W(x2), 100-240V
2U Rackmount	1U Rackmount	4U Rackmount	4U Rackmount
8.3 x 442.6 x 485.2 mm 3.48 x 17.43 x 19.1 inch	44 x 430 x 582 mm 1.73 x 16.93 x 22.91 inch	177.35 x 432.4 x 511.7 mm 6.98 x 17.02 x 20.15 inch	177.35 x 432.4 x 511.7 mm 6.98 x 17.02 x 20.15 inch



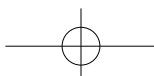
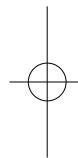
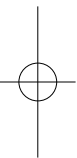
Model Name	TS-h1677AXU-RP	TS-h1277AXU-RP	TS-h1277AXU-RP
SKU	TS-h1677AXU-RP-R7-32G	TS-h1277AXU-RP-R5-16G	TS-h1277AXU-RP-R7-32G
CPU	AMD Ryzen™ 7 7000 series 8-core/16-thread processor, burst up to 5.3 GHz	AMD Ryzen™ 5 7000 series 6-core/12-thread processor, burst up to 5.1 GHz	AMD Ryzen™ 7 7000 series 8-core/16-thread processor, burst up to 5.3 GHz
GPU	AMD Radeon™ Graphics	AMD Radeon™ Graphics	AMD Radeon™ Graphics
NPU (TOPS)	-	-	-
System RAM	32 GB UDIMM DDR5	16 GB UDIMM DDR5	32 GB UDIMM DDR5
Maximum RAM	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)
RAM Slot	4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5 Supports optional ECC memory
Backup Battery Unit	-	-	-
Drive Bay	16 x 3.5-inch SATA / 2.5-inch SATA	12 x 3.5-inch SATA / 2.5-inch SATA	12 x 3.5-inch SATA / 2.5-inch SATA
M.2 Slot	2 x M.2 2280 PCIe Gen 5 x2 slots	2 x M.2 2280 PCIe Gen 5 x2 slots	2 x M.2 2280 PCIe Gen 5 x2 slots
LAN Port	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M), 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)
Thunderbolt Port	-	-	-
PCIe Slot	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4
USB Port	2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
LCD Display/ Button	-	-	-
Power Supply Unit	550 W PSU (x2), 100-240V	550 W PSU (x2), 100-240V	550 W PSU (x2), 100-240V
Form Factor	3U Rackmount	2U Rackmount	2U Rackmount
Dimensions (HxWxD)	131.3 x 482.2 x 550.8 mm 5.17 x 18.98 x 21.69 inch	88.6 x 482 x 550 mm 3.49 x 18.98 x 21.65 inch	88.6 x 482 x 550 mm 3.49 x 18.98 x 21.65 inch

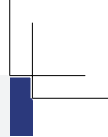
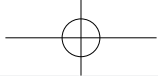


TS-h1886XU-RP R2	TVS-h1677AX	TVS-h1277AX	TVS-h877AX
TS-h1886XU-RP-R2-D1622-32G	TVS-h1677AX-R5-16G	TVS-h1277AX-R5-16G	TVS-h877AX-R5-16G
Intel® Xeon® D-1622 4-core processor, burst up to 3.2 GHz	AMD Ryzen™ 5 7000 series 6C/12T processor, up to 5.1 GHz	AMD Ryzen™ 5 7000 series 6C/12T processor, up to 5.1 GHz	AMD Ryzen™ 5 7000 series 6C/12T processor, up to 5.1 GHz
-	AMD Radeon™ Graphics	AMD Radeon™ Graphics	AMD Radeon™ Graphics
-	-	-	-
32 GB UDIMM DDR4 ECC	16 GB UDIMM DDR5	16 GB UDIMM DDR5	16 GB UDIMM DDR5
128 GB (4 x 32 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)
4 x UDIMM DDR4	4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5 Supports optional ECC memory	4 x UDIMM DDR5 Supports optional ECC memory
-	-	-	-
12 x 3.5-inch SATA 6 x 2.5-inch SATA	12 x 3.5-inch/ 2.5-inch SATA + 4 x 2.5-inch U.2 NVMe Gen 4 x2	8 x 3.5-inch/ 2.5-inch SATA + 4 x 2.5-inch U.2 NVMe Gen 4 x2	6 x 3.5-inch/ 2.5-inch SATA 2 x 2.5-inch U.2 NVMe Gen 4 x 4
Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
4 x 2.5GbE (2.5G/1G/100M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M) 25GbE optional via an adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M) 25GbE optional via an adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M) 25GbE optional via an adapter
-	-	-	-
2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8(x4)	1 x PCIe Gen 4 x8 or x4 2 x PCIe Gen 4 x4	1 x PCIe Gen 4 x8 or x4 2 x PCIe Gen 4 x4	1 x PCIe Gen 4 x8 or x4 2 x PCIe Gen 4 x4
2 x USB 3.2 Gen 1 Type-A	2 x USB 2.0 2 x USB 3.2 Gen 2 Type-C	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-C	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-C
Optional via a PCIe graphics card	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)
-	-	-	-
550 W PSU (x2), 100-240V	500 W (x1), 100-240V	500 W (x1), 100-240V	500 W (x1), 100-240V
2U Rackmount	Tower	Tower	Tower
88.6 x 432 x 511.2 mm 3.49 x 17.01 x 20.13 inch	294.3 x 369.9 x 319.8 mm 11.59 x 14.56 x 12.59 inch	225.2 x 369.9 x 319.8 mm 8.87 x 14.56 x 12.59 inch	225 x 292.9 x 319.8 mm 8.86 x 11.53 x 12.59 inch



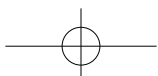
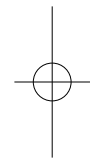
Model Name	TS-h1277AFX	TVS-AIh1688ATX	TVS-AIh1688ATX
SKU	TS-h1277AFX-R7-32G	TVS-AIh1688ATX-U9-32G	TVS-AIh1688ATX-U7-32G
CPU	AMD Ryzen™ 7 9000 Series 8C/16T 3.8 GHz, up to 5.5 GHz	Intel Core Ultra 9, 24 (8P+16E) core, 24 Threads, up to 5.6 GHz	Intel Core Ultra 7, 20 (8P+12E) core, 20 Threads, up to 5.3 GHz
GPU	AMD Radeon iGPU	Intel® Graphics	Intel® Graphics
NPU (TOPS)	-	36 TOPS	36 TOPS
System RAM	32 GB UDIMM DDR5 ECC	32 GB ECC UDIMM DDR5	32 GB ECC UDIMM DDR5
Maximum RAM	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)	192 GB (4 x 48 GB)
RAM Slot	4 x DDR5 UDIMM	4 x UDIMM DDR5	4 x UDIMM DDR5
Backup Battery Unit	-	-	-
Drive Bay	12 x 2.5-inch SATA	12 x 3.5-inch SATA / 2.5-inch SATA 4 x 2.5-inch U.2 NVMe Gen 4 x2 slots	12 x 3.5-inch SATA / 2.5-inch SATA 4 x 2.5-inch U.2 NVMe Gen 4 x2 slots
M.2 Slot	Optional via PCIe adapters	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M) 25GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M), 2 x 10GBASE-T (10G/5G/2.5G/1G) 5GbE optional via a PCIe adapter 25GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M), 2 x 10GBASE-T (10G/5G/2.5G/1G) 5GbE optional via a PCIe adapter 25GbE optional via a PCIe adapter
Thunderbolt Port	-	Optional via the QXP-T52P 2-port Thunderbolt 5 PCIe adapter	Optional via the QXP-T52P 2-port Thunderbolt 5 PCIe adapter
PCIe Slot	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x8 or x4	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x16	2 x PCIe Gen 4 x4 1 x PCIe Gen 4 x16
USB Port	1 x USB 3.2 Gen 1 Type-A 1 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A	3 x USB 3.2 Gen 2 Type-A 2 x USB 3.2 Gen 2 Type-C 2 x USB4 Type-C	3 x USB 3.2 Gen 2 Type-A 2 x USB 3.2 Gen 2 Type-C 2 x USB4 Type-C
HDMI Output	1 x HDMI 1.4b (up to 3840 x 2160 @ 30Hz)	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)
LCD Display/ Button	V	V	V
Power Supply Unit	Minimum 500 W, 100-240V	750 W PSU, 100~240V	750 W PSU, 100~240V
Form Factor	Tower	Tower	Tower
Dimensions (HxWxD)	157.2 x 368 x 362 mm 6.19 x 14.49 x 14.25 inch	294.3 x 369.89 x 319.8 mm 11.59 x 14.56 x 12.59 inch	294.3 x 369.89 x 319.8 mm 11.59 x 14.56 x 12.59 inch





Business Storage

The perfect balance of performance and budget. Featuring high-speed Thunderbolt™ connectivity, built-in comprehensive backup, ransomware protection, and virtualization applications, it helps SMBs build highly efficient and modern collaborative environments.





Model Name	TS-h1856XU-RP-8G	TS-h1456XU-RP-8G	TS-h1056XU-RP-8G	TS-h1056XU-RP-8G
SKU	TS-h1856XU-RP-i5-8G	TS-h1456XU-RP-i5-8G	TS-h1056XU-RP-i5-8G	TS-h1056XU-RP-i3-8G
CPU	Intel® Core™ i5-13420H 8C/12T processor, up to 4.6 GHz	Intel® Core™ i5-13420H 8C/12T processor, up to 4.6 GHz	Intel® Core™ i5-13420H 8C/12T processor, up to 4.6 GHz	Intel® Core™ i3-1315URE 6C/8T processor, up to 4.5 GHz
GPU	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5
Maximum RAM	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)
RAM Slot	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR5
Drive Bay	16 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	12 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	8 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	8 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4
M.2 Slot	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
LAN Port	2 x 10GBASE-T	2 x 10GBASE-T	2 x 10GBASE-T	2 x 10GBASE-T
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x4 1 x PCIe Gen 4 x8	1 x PCIe Gen 3 x4 1 x PCIe Gen 4 x8	1 x PCIe Gen 3 x4 1 x PCIe Gen 4 x8	1 x PCIe Gen 3 x4
USB Port	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C
HDMI Output	-	-	-	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	2 x 350 W, 100-240V	2 x 350 W, 100-240V	2 x 350 W, 100-240V	2 x 350 W, 100-240V
Form Factor	3U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Dimensions (HxWxD)	131.3 x 432.4 x 370.8 mm 5.17 x 17.02 x 14.60 inch	88.6 x 432 x 370.8 mm 3.49 x 17.01 x 14.60 inch	88.6 x 432 x 370.8 mm 3.49 x 17.01 x 14.60 inch	88.6 x 432 x 370.8 mm 3.49 x 17.01 x 14.60 inch



Model Name	TS-h1056XU-8G	TS-h656XU-RP	TS-h656XU-RP	TS-h656XU
SKU	TS-h1056XU-i3-8G	TS-h656XU-RP-i5-8G	TS-h656XU-RP-i3-8G	TS-h656XU-i3-8G
CPU	Intel® Core™ i3-1315URE 6C/8T processor, up to 4.5 GHz	Intel® Core™ i5-13420H 8C/12T processor, up to 4.6 GHz	Intel® Core™ i3-1315URE 6C/8T processor, up to 4.5 GHz	Intel® Core™ i3-1315URE 6C/8T processor, up to 4.5 GHz
GPU	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors	Intel® UHD Graphics for 13th Gen Intel® Processors
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5
Maximum RAM	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)	32 GB (1 x 32 GB)
RAM Slot	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR5
Drive Bay	8 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 4 x4
M.2 Slot	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
LAN Port	2 x 10GBASE-T	2 x 10GBASE-T	2 x 10GBASE-T	2 x 10GBASE-T
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x4	1 x PCIe Gen 4 x8	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4
USB Port	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C	2 x USB 2.0 Type-A 2 x USB4 Type-C
HDMI Output	-	-	-	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	350 W, 100-240V	2 x 350 W, 100-240V	2 x 350 W, 100-240V	350 W, 100-240V
Form Factor	2U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Dimensions (HxWxD)	88.6 x 432 x 370.8 mm 3.49 x 17.01 x 14.60 inch	43.3 x 430 x 374.9 mm 1.70 x 16.93 x 14.76 inch	43.3 x 430 x 374.9 mm 1.70 x 16.93 x 14.76 inch	43.3 x 430 x 374.9 mm 1.70 x 16.93 x 14.76 inch



TS-h1873BXU-RP	TS-h1473BXU-RP	TS-h673BXU-RP	TS-h673BXU	TS-h1073BXeU
TS-h1873BXU-16GB-RP	TS-h1473BXU-8GB-RP	TS-h673BXU-8G-RP	TS-h673BXU-8G	TS-h1073BXeU-8G
AMD Ryzen™ Embedded V1780B 4C/8T 3.35 GHz processor	AMD Ryzen™ Embedded V1780B 4C/8T 3.35 GHz processor	AMD Ryzen™ Embedded V1780B 4C/8T 3.35 GHz processor	AMD Ryzen™ Embedded V1780B 4C/8T 3.35 GHz processor	AMD Ryzen™ Embedded V1780B 4C/8T 3.35 GHz processor
-	-	-	-	-
-	-	-	-	-
16 GB UDIMM DDR4	8 GB UDIMM DDR4	8 GB UDIMM DDR4	8 GB UDIMM DDR4	8 GB SODIMM DDR4
32 GB (2 x 16 GB)	32 GB (2 x 16 GB)	32 GB (2 x 16 GB)	32 GB (2 x 16 GB)	32 GB (2 x 16 GB)
2 x UDIMM DDR4 Supports ECC memory	2 x UDIMM DDR4 Supports ECC memory	2 x UDIMM DDR4 Supports ECC memory	2 x UDIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory
16 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	12 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	8 x 3.5"/2.5" SATA
Optional via a M.2 adapter	Optional via a M.2 adapter	Optional via a M.2 adapter	Optional via a M.2 adapter	Optional via a M.2 adapter
2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T
-	-	-	-	-
1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4
1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A
Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
-	-	-	-	-
350 W PSU(x2), 100 - 240V	350 W PSU(x2), 100 - 240V	350 W PSU(x2), 100 - 240V	300 W PSU, 100 - 240V	300 W PSU, 100 - 240V
4U Rackmount	3U Rackmount	1U Rackmount	1U Rackmount	2U Rackmount
131.3 x 432.4 x 370.8 mm 5.17 x 17.02 x 14.60 inch	88.6 x 432 x 370.8 mm 3.49 x 17.01 x 14.60 inch	43.3 x 430 x 374.9 mm 1.70 x 16.93 x 14.76 inch	43.3 x 430 x 374.9 mm 1.70 x 16.93 x 14.76 inch	88.6 x 432 x 294.9 mm 3.49 x 17.01 x 11.61 inch



Model Name	TS-h1073BxeU-RP	TS-1673AU-RP	TS-1273AU-RP	TS-h1655XeU-RP
SKU	TS-h1073BxeU-8G-RP	TS-1673AU-RP-16G	TS-1273AU-RP-8G	TS-h1655XeU-RP-8G
CPU	AMD Ryzen™ Embedded V1780B 4C/8T 3.235 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	Intel® Atom® C5125 8-core processor, 2.8 GHz
GPU	-	-	-	-
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR4	16 GB UDIMM DDR4	8 GB UDIMM DDR4	8 GB non-ECC SODIMM DDR4
Maximum RAM	32 GB (2 x 16 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
RAM Slot	2 x SODIMM DDR4 Supports ECC memory	2 x UDIMM DDR4 Supports ECC memory	2 x UDIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory
Drive Bay	8 x 3.5"/2.5" SATA	16 x 3.5"/2.5" SATA	12 x 3.5"/2.5" SATA	12 x 3.5"/2.5" SATA 4 x E1.S/M.2 PCIe Gen 3 x2
M.2 Slot	Optional via a M.2 adapter	Optional via a QNAP QM2 PCIe card	Optional via a QNAP QM2 PCIe card	4 x M.2 2280 (PCIe Gen 3 x2)
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 25GbE optional via a PCIe adapter
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4
USB Port	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 1 Type-A 2 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 1 Type-A 2 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 1 Type-A
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card	Optional via a PCIe graphics card
LCD Display/ Button	-	-	-	-
Power Supply Unit	350 W (x2) PSU, 100 - 240V	550 W PSU (x2), 100-240V AC, 50-60Hz, 7-3.5A	300 W (x2) PSU, 100 - 240V	Minimum 300 W (x2) PSU, 100-240VAC
Form Factor	2U Rackmount	3U Rackmount	2U Rackmount	3U Short Depth Rackmount
Dimensions (HxWxD)	88.6 x 432 x 294.9 mm 3.49 x 17.01 x 11.61 inch	131.3 x 432 x 370.9 mm 5.17 x 17.01 x 14.6 inch	88.6 x 432 x 370.7 mm 3.49 x 17.01 x 14.59 inch	133 x 432.4 x 297 mm 5.24 x 17.02 x 11.69 inch



TS-h1465U-RP	TS-h1065eU-RP	TS-h1065eU	TS-h665U-RP	TS-h665U
TS-h1465U-RP-8G	TS-h1065eU-RP-8G	TS-h1065eU-8G	TS-h665U-RP-8G	TS-h665U-8G
Intel 4-core processor	Intel 4-core processor	Intel 4-core processor	Intel 4-core processor	Intel 4-core processor
-	-	-	-	-
-	-	-	-	-
8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5
16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)
1 x SODIMM DDR5	1 x SODIMM DDR5	1 x SODIMM DDR5	1 x SODIMM DDR5	1 x SODIMM DDR5
12 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	8 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	8 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1	4 x 3.5"/2.5" SATA 2 x E1.S/M.2 NVMe Gen 3 x1
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 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter
-	-	-	-	-
1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2
3 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A	3 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A	3 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A	3 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A	3 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A
-	-	-	-	-
-	-	-	-	-
300 W (x2), 100-240V	300 W (x2), 100-240V	250 W, 100-240V	300 W (x2), 100-240V	250 W, 100-240V
2U Rackmount	2U Short Depth Rackmount	2U Short Depth Rackmount	1U Rackmount	1U Rackmount
88.6 x 432 x 370.85 mm 3.49 x 17.01 x 14.6 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	43.3 x 430 x 376.9 mm 1.7 x 16.93 x 14.83 inch	43.3 x 430 x 376.9 mm 1.7 x 16.93 x 14.83 inch



Model Name	TS-855eU-RP	TS-855eU	TS-1232PXU-RP	TS-832PXU-RP
SKU	TS-855eU-RP-8G	TS-855eU-8G	TS-1232PXU-RP-4G	TS-832PXU-RP-4G
CPU	Intel® Atom® C5125 8-core processor, 2.8 GHz	Intel® Atom® C5125 8-core processor, 2.8 GHz	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7 GHz processor	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7 GHz processor
GPU	-	-	-	-
NPU (TOPS)	-	-	-	-
System RAM	8 GB non-ECC SODIMM DDR4	8 GB non-ECC SODIMM DDR4	4 GB UDIMM DDR4	4 GB UDIMM DDR4
Maximum RAM	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)
RAM Slot	2 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory	1 x UDIMM DDR4	1 x UDIMM DDR4
Drive Bay	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	12 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
M.2 Slot	2 x M.2 2280 (PCIe Gen 3 x4)	2 x M.2 2280 (PCIe Gen 3 x4)	Optional via a PCIe adapter	Optional via a PCIe adapter
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter 25GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter 25GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+
Thunderbolt Port	-	-	-	-
PCIe Slot	2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	1 x PCIe Gen 2 x2	1 x PCIe Gen 2 x2
USB Port	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A
HDMI Output	Optional via a PCIe graphics card	Optional via a PCIe graphics card	-	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	Minimum 300 W (x2) PSU, 100-240VAC	250 W PSU, 100 - 240V	250 W (x2) PSU, 100 - 240V	250 W (x2) PSU, 100 - 240V
Form Factor	2U Short Depth Rackmount	2U Short Depth Rackmount	2U Rackmount	2U Rackmount
Dimensions (HxWxD)	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 511 mm 3.49 x 17.01 x 20.12 inch	88.6 x 432 x 511 mm 3.49 x 17.01 x 20.12 inch



TS-832PXU	TS-432PXU-RP	TS-432PXU	TS-1264U-RP	TS-464U-RP
TS-832PXU-4G	TS-432PXU-RP-2G	TS-432PXU-2G	TS-1264U-RP-8G	TS-464U-RP-4G
AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7 GHz processor	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7 GHz processor	AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7 GHz processor	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz
-	-	-	Intel® UHD Graphics	Intel® UHD Graphics
-	-	-	-	-
4 GB UDIMM DDR4	2 GB UDIMM DDR4	2 GB UDIMM DDR4	8 GB SODIMM DDR4	4 GB SODIMM DDR4
16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)
1 x UDIMM DDR4	1 x UDIMM DDR4	1 x UDIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4
8 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	12 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA
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 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M), 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter and PCIe expansion card
-	-	-	-	-
1 x PCIe Gen 2 x2	1 x PCIe Gen 2 x2	1 x PCIe Gen 2 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2
4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	4 x USB 3.2 Gen 1 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A
-	-	-	1, HDMI™ 1.4b	1, HDMI™ 1.4b
-	-	-	-	-
250 W PSU, 100 - 240V	250 W (x2) PSU, 100 - 240V	250 W PSU, 100 - 240V	300 W (x2), 100-240V	250 W (x2), 100-240V
2U Rackmount	1U Rackmount	1U Rackmount	2U Rackmount	1U Rackmount
88.6 x 432 x 511 mm 3.49 x 17.01 x 20.12 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	88.6 x 432 x 370.7 mm 3.49 x 17.01 x 14.59 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch



Model Name	TS-464U-RP	TS-464U	TS-464U	TS-873AeU-RP
SKU	TS-464U-RP-8G	TS-464U-4G	TS-464U-8G	TS-873AeU-RP-4G
CPU	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor
GPU	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics	-
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR4	4 GB SODIMM DDR4	8 GB SODIMM DDR4	4 GB SODIMM DDR4
Maximum RAM	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	64 GB (2 x 32 GB)
RAM Slot	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4	"2 x SODIMM DDR4 Supports ECC memory"
Drive Bay	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
M.2 Slot	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	2 x M.2 2280 (PCIe Gen 3 x1)
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter and PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter and PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter and PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x8
USB Port	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 3.2 Gen 2 Type-A 2 x USB 3.2 Gen 2 Type-C
HDMI Output	1, HDMI™ 1.4b	1, HDMI™ 1.4b	1, HDMI™ 1.4b	Optional via a PCIe graphics card
LCD Display/ Button	-	-	-	-
Power Supply Unit	250 W (x2), 100-240V	250 W (x1), 100-240V	250 W (x1), 100-240V	Minimum 300 W PSU(x2), 100 - 240V
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount	2U Short Depth Rackmount
Dimensions (HxWxD)	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	43.3 x 430 x 479 mm 1.7 x 16.93 x 18.86 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch



TS-873AeU	TS-864eU-RP	TS-864eU-RP	TS-864eU	TS-864eU
TS-873AeU-4G	TS-864eU-RP-4G	TS-864eU-RP-8G	TS-864eU-4G	TS-864eU-8G
AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz
-	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
-	-	-	-	-
4 GB SODIMM DDR4	4 GB SODIMM DDR4	8 GB SODIMM DDR4	4 GB SODIMM DDR4	8 GB SODIMM DDR4
64 GB (2 x 32 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)
2 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4
8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
2 x M.2 2280 (PCIe Gen 3 x1)	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe expansion card and network adapter
-	-	-	-	-
1 x PCIe Gen 3 x8	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2
2 x USB 3.2 Gen 2 Type-A 2 x USB 3.2 Gen 2 Type-C	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A
Optional via a PCIe graphics card	1, HDMI™ 1.4b	1, HDMI™ 1.4b	1, HDMI™ 1.4b	1, HDMI™ 1.4b
-	-	-	-	-
250 W PSU, 100 - 240V	300 W (x2), 100-240V	300 W (x2), 100-240V	300 W, 100-240V	300 W, 100-240V
2U Short Depth Rackmount	2U Short Depth Rackmount	2U Short Depth Rackmount	2U Short Depth Rackmount	2U Short Depth Rackmount
88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch	88.6 x 432 x 297.4 mm 3.49 x 17.01 x 11.71 inch



Model Name	TS-h765eU	TS-464eU	TS-464eU	TS-435XeU
SKU	TS-h765eU-8G	TS-464eU-4G	TS-464eU-8G	TS-435XeU-4G
CPU	Intel Atom x7405C 4-core, up to 3.4 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Marvell OCTEON TX2™ CN9130 / CN9131 ARMv8 Cortex-A72 4-core 2.2 GHz processor
GPU	-	Intel® UHD Graphics	Intel® UHD Graphics	-
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR5, enabled in-band ECC	4 GB SODIMM DDR4	8 GB SODIMM DDR4	4 GB SODIMM DDR4
Maximum RAM	16 GB (1 x 16 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	32 GB (1 x 32 GB)
RAM Slot	1 x SODIMM DDR5	2 x SODIMM DDR4	2 x SODIMM DDR4	1 x SODIMM DDR4
Drive Bay	4 x 3.5"/2.5" SATA 3 x E1.S up to 15 mm (Pre-install adapter to support M.2 2280 for each)	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA
M.2 Slot	3 x E1.S up to 15 mm (Pre-install adapter to support M.2 2280 for each slots)	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)
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 10GbE optional via QXG-ES10G1T	2 x 2.5GbE (2.5G/1G/100M/10M)	2 x 2.5GbE (2.5G/1G/100M/10M)	2 x 2.5GbE (2.5G/1G/100M) 2 x 10GbE SFP+
Thunderbolt Port	-	-	-	-
PCIe Slot	-	-	-	-
USB Port	1 x USB 2.0 Type-A 1 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A, 2 x USB 3.2 Gen 1 Type-A
HDMI Output	-	1, HDMI™ 1.4b	1, HDMI™ 1.4b	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	150 W, 100-240V	100 W PSU, 100-240V	100 W PSU, 100-240V	100 W PSU, 100-240V
Form Factor	1U Short Depth Rackmount	1U Short Depth Rackmount	1U Short Depth Rackmount	1U Short Depth Rackmount
Dimensions (HxWxD)	43 x 430 x 292.1 mm 1.69 x 16.93 x 11.5 inch	43.3 x 430 x 292.1 mm 1.7 x 16.93 x 11.5 inch	43.3 x 430 x 292.1 mm 1.7 x 16.93 x 11.5 inch	43.3 x 430 x 292.12 mm 1.7 x 16.93 x 11.5 inch



TS-432XeU	TS-433eU	8-bay AI NAS	6-bay AI NAS	TVS-h874T
TS-432XeU-4G	TS-433eU	8-bay AI NAS	6-bay AI NAS	TVS-h874T-i9-64G
Annapurna Labs Alpine Quad-core ARM® Cortex-A57 CPU 1.70 GHz processor	ARM 4-core Cortex-A55 processor, up to 2.0 GHz	Intel Core Ultra 7 356H, 16C/16T, up to 4.7 GHz	Intel Core Ultra 5 325, 8C/8T, up to 4.5 GHz	Intel® Core™ i9 16-core (8P+8E) /24-thread Processor
-	ARM Mali-G52 2EE	Intel® Graphics	Intel® Graphics	Intel® UHD Graphics 770
-	1 TOPS	50 TOPS, Total 100 TOPS	47 TOPS, Total 92 TOPS	-
4 GB SODIMM DDR4	4 GB, not expandable	64 GB SODIMM DDR5	32 GB SODIMM DDR5	64 GB SODIMM DDR4
16 GB (1 x 16 GB)	4 GB on board (non-expandable)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
1 x SODIMM DDR4	-	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR4
4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	6 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
-	-	2 x M.2 2280 (PCIe Gen 5 x2)	2 x M.2 2280 (PCIe Gen 5 x2)	2 x M.2 2280 (PCIe Gen 4 x4)
2 x 2.5GbE (2.5G/1G/100M) 2 x 10GbE SFP+	1 x 2.5GbE (2.5G/1G/100M)	2 x 10GBASE-T	2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card
-	-	-	-	2 (Thunderbolt™ 4)
-	-	1 x PCIe Gen 4 x4 1 x PCIe Gen 5 x4	1 x PCIe Gen 4 x4	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4 * Slot 2 is preinstalled with a Thunderbolt 4 AIC.
4 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A	2 x USB 4 1 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A 1 x USB 2.0 Type-A	2 x USB 4 1 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A 1 x USB 2.0 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A
-	-	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 1.4b (up to 4096 x 2160 @ 30Hz)
-	-	V	-	V
100 W PSU, 100-240V	60 W, 100-240VAC	350 W , 100-240V	250 W , 100-240V	350 W , 100-240V
1U Short Depth Rackmount	1U Short Depth Rackmount	Tower	Tower	Tower
43.3 x 430 x 292.12 mm 1.7 x 16.93 x 11.5 inch	43.3 x 430 x 292.3 mm 1.7 x 16.93 x 11.51 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch	180.2 x 264.3 x 279.6 mm 7.09 x 10.41 x 11.01 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch



Model Name	TVS-h874T	TVS-h874	TVS-h874	TVS-h874
SKU	TVS-h874T-i7-32G	TVS-h874X-i9-64G	TVS-h874-i7-32G	TVS-h874-i5-32G
CPU	Intel® Core™ i7 12-core (8P+4E) /20-thread Processor	Intel® Core™ i9 16-core (8P+8E) /24-thread Processor	Intel® Core™ i7 12-core (8P+4E) /20-thread Processor	Intel® Core™ i5-12400 6C/12T Processor, up to 4.4 GHz
GPU	Intel® UHD Graphics 770	Intel® UHD Graphics 770	Intel® UHD Graphics 770	Intel® UHD Graphics 730
NPU (TOPS)	-	-	-	-
System RAM	32 GB SODIMM DDR4	64 GB SODIMM DDR4	32 GB SODIMM DDR4	32 GB SODIMM DDR4
Maximum RAM	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
RAM Slot	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4
Drive Bay	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
M.2 Slot	2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 (PCIe Gen 4 x4)
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card
Thunderbolt Port	2 (Thunderbolt™ 4)	-	-	-
PCIe Slot	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4 *Slot 2 is preinstalled with a Thunderbolt 4 AIC.	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4 *Slot 1 is preinstalled with a 10GbE network adapter.	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4
USB Port	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A
HDMI Output	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)	1, HDMI™ 1.4b (up to 4096 x 2160 @ 30Hz)
LCD Display/ Button	V	V	V	V
Power Supply Unit	350 W , 100-240V	350 W , 100-240V	350 W , 100-240V	250 W, 100-240V
Form Factor	Tower	Tower	Tower	Tower
Dimensions (HxWxD)	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch



TVS-h674T	TVS-h674	TVS-h674	TVS-h474	TS-h1056X
TVS-h674T-i5-32G	TVS-h674-i5-32G	TVS-h674-i3-16G	TVS-h474-i3-8G	TS-h1056X-i5-8G
Intel® Core™ i5-12400 6C/12T Processor, up to 4.4 GHz	Intel® Core™ i5-12400 6C/12T Processor, up to 4.4 GHz	Intel® Core™ i3-12100 4C/8T Processor, up to 4.3 GHz	Intel® Core™ i3-12100 4C/8T Processor, up to 4.3 GHz	Intel® Core™ i5 10-core Processors
Intel® UHD Graphics 730	Intel® UHD Graphics 730	Intel® UHD Graphics 730	Intel® UHD Graphics 730	Intel® Iris® Xe Graphics eligible
-	-	-	-	-
32 GB SODIMM DDR4	32 GB SODIMM DDR4	16 GB SODIMM DDR4	8 GB SODIMM DDR4	8 GB SODIMM DDR5
64 GB (2 x 32 GB)	64 GB (2 x 32 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	2 x SODIMM DDR4	2 x SODIMM DDR5
6 x 3.5"/2.5" SATA	6 x 3.5"/2.5" SATA	6 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA 2 x E1.S PCIe Gen 3 x4
2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 (PCIe Gen 4 x4)	2 x M.2 2280 PCIe Gen 3 x2)	Optional via a M.2 adapter
2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 10GBASE-T
2 (Thunderbolt™ 4)	-	-	-	-
1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4 *Slot 2 is preinstalled with a Thunderbolt 4 AIC.	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4	1 x PCIe Gen 4 x16 1 x PCIe Gen 4 x4	1 x PCIe Gen 4 x16 1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x4
1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 1 Type-A 1 x USB 3.2 Gen 2 Type-C 1 x USB 3.2 Gen 2 Type-A	2 x USB 4 2 x USB 3.2 Gen 2 Type-A
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)	1, HDMI™ 1.4b (up to 4096 x 2160 @ 30Hz)	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)
V	V	V	V	-
Minimum 250 W PSU, 100-240VAC	250 W, 100-240V	250 W, 100-240V	250 W, 100-240V	250 W , 100-240V
Tower	Tower	Tower	Tower	Tower
180.2 x 264.3 x 279.6 mm 7.09 x 10.41 x 11.01 inch	180.2 x 264.3 x 279.6 mm 7.09 x 10.41 x 11.01 inch	180.2 x 264.3 x 279.6 mm 7.09 x 10.41 x 11.01 inch	180.2 x 199.3 x 279.6 mm 7.09 x 7.85 x 11.01 inch	171 x 332 x 232 mm 6.73 x 13.07 x 9.13 inch



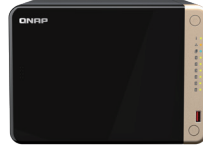
Model Name	TS-h856X	TS-h656X	TS-h966TX	TS-1655
SKU	TS-h856X-i5-8G	TS-h656X-i3-8G	TS-h966TX-8G	TS-1655-8G
CPU	Intel® Core™ i5 10-core Processors	Intel® Core™ i3 6-core Processors	Intel i3-1215U 6C(2P+4E)/8T, up to 4.4 GHz	Intel® Atom® C5125 8-core processor, 2.8 GHz
GPU	Intel® Iris® Xe Graphics eligible	Intel® UHD Graphics for 12th Gen Intel® Processors	Intel® UHD Graphics for 12th Gen Intel® Processors	-
NPU (TOPS)	-	-	-	-
System RAM	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB non-ECC UDIMM DDR4
Maximum RAM	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	128 GB (4 x 32 GB)
RAM Slot	2 x SODIMM DDR5	2 x SODIMM DDR5	2 x SODIMM DDR5	4 x U-DIMM DDR4 Supports ECC memory
Drive Bay	6 x 3.5"/2.5" SATA 2 x E1.S PCIe Gen 3 x4	4 x 3.5"/2.5" SATA 2 x E1.S PCIe Gen 3 x4	5 x 3.5/2.5-inch SATA 4 x 2.5-inch U.2 PCIe NVMe	12 x 3.5/2.5-inch SATA 4 x 2.5-inch SATA
M.2 Slot	Optional via a M.2 adapter	Optional via a M.2 adapter	Optional via a PCIe adapter	2 x M.2 2280 (PCIe Gen 3 x2)
LAN Port	2 x 10GBASE-T	2 x 10GBASE-T	1 x 2.5GbE 1 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10 GbE optional via a PCIe expansion card 25GbE optional via a PCIe expansion card
Thunderbolt Port	-	-	2 (Thunderbolt™ 4)	-
PCIe Slot	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	-	3 x PCIe Gen 3 x4
USB Port	2 x USB 4 2 x USB 3.2 Gen 2 Type-A	2 x USB 4 2 x USB 3.2 Gen 2 Type-A	1 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 1 Type-A
HDMI Output	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1 x HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	150 W adapter, 100-240V	120 W adapter, 100-240V	150 W adapter, 100-240V	550 W, 100-240V
Form Factor	Tower	Tower	Tower	Tower
Dimensions (HxWxD)	171 x 266 x 232 mm 6.73 x 10.47 x 9.13 inch	171 x 185 x 232 mm 6.73 x 7.28 x 9.13 inch	176.5 x 224.6 x 224.1 mm 6.95 x 8.84 x 8.82 inch	294.2 x 369.8 x 319.8 mm 11.59 x 14.56 x 12.59 inch



TS-855X	TS-873A	TS-673A	TS-473A	TS-867X
TS-855X-8G	TS-873A-8G	TS-673A-8G	TS-473A-8G	TS-867X-4G
Intel® Atom® C5125 8-core processor, 2.8 GHz	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor
-	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
-	-	-	-	-
8 GB non-ECC UDIMM DDR4	8 GB SODIMM DDR4	8 GB SODIMM DDR4	8 GB SODIMM DDR4	4 GB SODIMM DDR4
128 GB (4 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)
4 x U-DIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4
6 x 3.5"/2.5-inch SATA 2 x 2.5-inch SATA	8 x 3.5"/2.5" SATA	6 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	8 x 3.5"/2.5" SATA
2 x M.2 2280 (PCIe Gen 3 x4)	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)	2 x M.2 2280 (PCIe Gen 3 x2)
2 x 2.5GbE (2.5G/1G/100M/10M), 1 x 10GBASE-T (10G/5G/2.5G/1G/100M), 25GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 2.5GbE (2.5G/1G/100M) 5GbE optional via a PCIe adapter 10GbE optional via a PCIe adapter	2 x 10GBASE-T
-	-	-	-	-
2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	2 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4
1 x USB 2.0 Type-A 3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 2 Type-A, 1 x USB 3.2 Gen 1 Type-C	3 x USB 3.2 Gen 2 Type-A, 1 x USB 3.2 Gen 1 Type-C	3 x USB 3.2 Gen 2 Type-A, 1 x USB 3.2 Gen 1 Type-C	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A
-	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter	Optional via a PCIe adapter
-	-	-	-	-
250 W PSU, 100~240V	250 W, 100-240V AC, 50-60Hz, 3.5A	250 W, 100-240V AC, 50-60Hz, 3.5A	250 W, 100-240V AC, 50-60Hz, 3.5A	150W, 100-240V
Tower	Tower	Tower	Tower	Tower
225 x 292.9 x 319.8 mm 8.86 x 11.53 x 12.59 inch	180.2 x 329.3 x 279.6 mm 7.09 x 12.96 x 11.01 inch	180.2 x 264.3 x 279.6 mm 7.09 x 10.41 x 11.01 inch	180.2 x 199.3 x 279.6 mm 7.09 x 7.85 x 11.01 inch	171 x 332 x 232.4 mm 6.73 x 13.07 x 9.15 inch



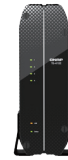
Model Name	TS-667X	TS-467X	TS-932PX	TS-832PX
SKU	TS-667X-4G	TS-467X-4G	TS-932PX-4G	TS-832PX-4G
CPU	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AMD Ryzen™ Embedded V1500B 4C/8T 2.2 GHz processor	AnnapurnaLabs Alpine AL324 ARM® Cortex-A57 4-core 1.7 GHz processor	AnnapurnaLabs Alpine AL324 ARM® Cortex-A57 4-core 1.7 GHz processor
GPU	Optional via a PCIe adapter	Optional via a PCIe adapter	-	-
NPU (TOPS)	-	-	-	-
System RAM	4 GB SODIMM DDR4	4 GB SODIMM DDR4	4 GB SODIMM DDR4	4 GB SODIMM DDR4
Maximum RAM	64 GB (2 x 32 GB)	64 GB (2 x 32 GB)	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)
RAM Slot	2 x SODIMM DDR4	2 x SODIMM DDR4	1 x SODIMM DDR4	1 x SODIMM DDR4
Drive Bay	6 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	5 x 3.5/2.5-inch SATA 4 x 2.5-inch SATA	8 x 3.5"/2.5" SATA
M.2 Slot	2 x M.2 2280 (PCIe Gen 3 x2)	2 x M.2 2280 (PCIe Gen 3 x2)		Optional via a PCIe adapter
LAN Port	2 x 10GBASE-T	2 x 10GBASE-T	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M) 2 x 10GbE SFP+
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	-	1 x PCIe Gen 2 x2
USB Port	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 2 Type-C 2 x USB 3.2 Gen 2 Type-A	3 x USB 3.2 Gen 1 Type-A	3 x USB 3.2 Gen 1 Type-A
HDMI Output	Optional via a PCIe adapter	Optional via a PCIe adapter	-	-
LCD Display/ Button	-	-	-	-
Power Supply Unit	120 W adapter, 100-240V	90 W adapter, 100-240V	120 W adapter, 100-240V	250 W, 100-240V AC, 50/60Hz, 3.5A
Form Factor	Tower	Tower	Tower	Tower
Dimensions (HxWxD)	171 x 266 x 232.4 mm 6.73 x 10.47 x 9.15 inch	171 x 195.4 x 232.4 mm 6.73 x 7.69 x 9.15 inch	176.5 x 224.6 x 224.1 mm 6.95 x 8.84 x 8.82 inch	180.2 x 329.3 x 280.8 mm 7.09 x 12.96 x 11.06 inch



TS-h865	TS-h665	TS-664	TS-464	TS-264
TS-h865-8G	TS-h665-8G	TS-664-8G	TS-464-8G	TS-264-8G
Intel® N150 4C/4T processor, up to 3.6 GHz	Intel® N150 4C/4T processor, up to 3.6 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz
Intel® Graphics	Intel® Graphics	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
-	-	-	-	-
8 GB SODIMM DDR5	8 GB SODIMM DDR5	8 GB SODIMM DDR4	8 GB SODIMM DDR4	8 GB SODIMM DDR4
16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)
1 x SODIMM DDR5	1 x SODIMM DDR5	2 x SODIMM DDR4	2 x SODIMM DDR4	2 x SODIMM DDR4
6 x 3.5"/2.5" SATA 2 x E1.S PCIe Gen 3 x1	4 x 3.5"/2.5" SATA 2 x E1.S PCIe Gen 3 x1	6 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	2 x 3.5"/2.5" SATA
Optional via a M.2 adapter	Optional via a M.2 adapter	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)
2 x 2.5GbE 10GbE optional via PCIe slot	2 x 2.5GbE 10GbE optional via PCIe slot	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card	2 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via a PCIe expansion card 10GbE optional via a PCIe expansion card
-	-	-	-	-
1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x2
2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A 1 x USB 3.2 Gen 2 Type-C	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A 1 x USB 3.2 Gen 2 Type-C	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A
1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.2 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)
-	-	-	-	-
120 W adapter, 100-240V	90 W adapter, 100-240V	120 W adapter, 100-240V	90 W adapter, 100-240V	60 W adapter, 100-240V
Tower	Tower	Tower	Tower	Tower
171 x 266 x 232 mm 6.73 x 10.47 x 9.13 inch	171 x 185 x 232 mm 6.73 x 7.28 x 9.13 inch	165 x 235 x 226.5 mm 6.5 x 9.25 x 8.92 inch	165 x 170 x 226.5 mm 6.5 x 6.69 x 8.92 inch	165 x 105 x 226.5 mm 6.5 x 4.13 x 8.92 inch



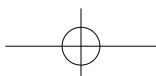
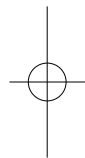
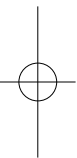
Model Name	TS-AI642	TS-632X	TS-432X	TS-453E
SKU	TS-AI642-8G	TS-632X-4G	TS-432X-4G	TS-453E-8G
CPU	8-core ARM Cortex 64-bit Processor (4-core Cortex-A76 2.2 GHz + 4-core Cortex-A55 1.8 GHz)	AnnapurnaLabs, an Amazon company Alpine AL524, 4-core, 2.0 GHz	AnnapurnaLabs, an Amazon company Alpine AL524, 4-core, 2.0 GHz	Intel® Celeron® J6412 4C/4T processor, up to 2.6 GHz
GPU	ARM Mali-G610 MC4	-	-	Intel® UHD Graphics
NPU (TOPS)	6 TOPS	-	-	-
System RAM	8 GB, not expandable	4 GB SODIMM DDR4	4 GB SODIMM DDR4	8 GB SODIMM DDR4
Maximum RAM	8 GB	16 GB (1 x 16 GB)	16 GB (1 x 16 GB)	16 GB (2 x 8 GB)
RAM Slot	-	1 x SODIMM DDR4 Supports ECC memory	1 x SODIMM DDR4 Supports ECC memory	2 x SODIMM DDR4
Drive Bay	6 x 3.5"/2.5" SATA	6 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA
M.2 Slot	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	Optional via a QM2 PCIe adapter	2 x M.2 2280 (PCIe Gen 3 x2)
LAN Port	2 x 1GbE RJ45 1 x 2.5GbE (2.5G/1G/100M/10M) 5GbE optional via an adapter 10GbE optional via an adapter	2 x 2.5GbE (2.5G/1G/100M) 2 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M) 1 x 10GbE SFP+	2 x 2.5GbE (2.5G/1G/100M/10M)
Thunderbolt Port	-	-	-	-
PCIe Slot	1 x PCIe Gen 3 x2	1 x PCIe Gen 3 x4	1 x PCIe Gen 3 x4	-
USB Port	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A
HDMI Output	2, HDMI™ 1.4b	-	-	2 x HDMI 1.4b (up to 3840 x 2160 @ 30Hz)
LCD Display/ Button	-	-	-	-
Power Supply Unit	120 W adapter, 100-240V	120 W adapter (12VDC), 100-240VAC	90 W adapter (12VDC), 100-240VAC	90 W adapter, 100-240V
Form Factor	Tower	Tower	Tower	Tower
Dimensions (HxWxD)	165 x 235 x 226.5 mm 6.5 x 9.25 x 8.92 inch	165 x 235 x 226.5 mm 6.5 x 9.25 x 8.92 inch	165 x 170 x 226.5 mm 6.5 x 6.69 x 8.92 inch	165 x 160.2 x 220.5 mm 6.5 x 6.31 x 8.68 inch

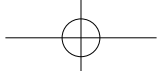


TS-253E	TBS-h574TX	TS-i410X	TS-410E	TBS-465X
TS-253E-8G	TBS-h574TX-i5U-16G	TS-i410X-8G	TS-410E-8G	TBS-465X
Intel® Celeron® J6412 4C/4T processor, up to 2.6 GHz	Intel® Core™ i5-1235U, 10C (2P+8E)/12T, 4.4 GHz	Intel® Atom® x6425E 4C/4T processor, up to 3.0 GHz	Intel® Celeron® J6412 4C/4T processor, up to 2.6 GHz	Intel® Celeron® N150 4C/4T processor, up to 3.6 GHz
Intel® UHD Graphics	Intel® Iris® Xe Graphics eligible	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® UHD Graphics
-	-	-	-	-
8 GB SODIMM DDR4	16 GB, not expandable	8 GB, not expandable	8 GB, not expandable	8 GB LPDDR5 4800, not expandable
16 GB (2 x 8 GB)	16 GB on board (non- expandable)	8 GB on board (non- expandable)	8 GB on board (non- expandable)	8 GB LPDDR5 4800, not expandable
2 x SODIMM DDR4	-	-	-	-
2 x 3.5"/2.5" SATA	5 x E1.S up to 15 mm (5 x PCIe Gen 3 x2) Pre-install adapter to support M.2 2280 for each	4 x 2.5-inch SATA	4 x 2.5-inch SATA	-
2 x M.2 2280 (PCIe Gen 3 x2)	5 x M.2 2280 PCIe Gen 3 slots (via pre-installed adapter)	-	-	2 x M.2 2280 (PCIe Gen 3 x2) 2 x M.2 2280 (PCIe Gen 3 x1)
2 x 2.5GbE (2.5G/1G/100M/10M)	1 x 2.5GbE (2.5G/1G/100M), 1 x 10GBASE-T (10G/5G/2.5G/1G/100M)	2 x 10GBASE-T (10G/5G/2.5G/1G)	2 x 2.5GbE (2.5G/1G/100M/10M)	1 x 2.5GbE 1 x 10GBASE-T
-	2 (Thunderbolt™ 4)	-	-	-
-	-	-	-	-
2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	1 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	4 x USB 3.2 Gen 2 Type-A	3 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A
2 x HDMI 1.4b (up to 3840 x 2160 @ 30Hz)	1, HDMI™ 1.4b	1, HDMI™ 1.4b (up to 3840 x 2160 @ 30Hz)	1, HDMI™ 1.4b (up to 3840 x 2160 @ 30Hz)	1, HDMI™ 2.2 (up to 3840 x 2160 @ 60Hz)
-	-	-	-	-
60 W/65 W adapter, 100- 240V	120 W Adapter (19VDC output, 100-240VAC input)	1. External Power Adapter, 90 W and above, AC 100-240V 2. 9-36V DC input"	External Power Adapter, 90 W and above, AC 100- 240V	External Power Adapter, 65 W, 100-240V
Tower	Set-top design	Set-top design	Set-top design	Set-top design
165 x 102 x 220.6 mm 6.5 x 4.02 x 8.69 inch	60 x 215 x 199 mm 2.36 x 8.46 x 7.83 inch	62 x 180 x 244 mm 2.44 x 7.09 x 9.61 inch	180 x 59.1 x 244 mm 7.09 x 2.33 x 9.61 inch	30 x 230 x 165 mm 1.18 x 9.06 x 6.5 inch



Model Name	TBS-464	QBoat-300
SKU	TBS-464-8G	QBoat-300
CPU	Intel® Celeron® N5105 4C/4T processor, up to 2.9 GHz	Industrial-grade wide-temperature ARM 4-core Cortex-A55 processor, up to 1.8 GHz
GPU	Intel® UHD Graphics	ARM Mali-G52 2EE
NPU (TOPS)	-	1 TOPS
System RAM	8 GB DDR4, not expandable	4 GB, not expandable
Maximum RAM	8 GB DDR4, not expandable	4 GB on board (non-expandable)
RAM Slot	-	-
Drive Bay	-	-
M.2 Slot	4 x M.2 2280 NVMe Gen 3 x2 slots	3 x M.2 22110/2280 PCIe slots
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M)	2 x 1GbE RJ45
Thunderbolt Port	-	-
PCIe Slot	-	-
USB Port	3 x USB 2.0 Type-A 2 x USB 3.2 Gen 1 Type-A	2 x USB 3.2 Gen 1 Type-A
HDMI Output	2, HDMI™ (up to 3840 x 2160 @ 60Hz)	-
LCD Display/ Button	-	V
Power Supply Unit	Minimum 60 W adapter (12VDC), 100-240VAC	Minimum 48 W adapter (12VDC), 100-240VAC
Form Factor	Set-top design	DIN-rail NAS
Dimensions (HxWxD)	30 x 230 x 165 mm 1.18 x 9.06 x 6.5 inch	184 x 40 x 132 mm 7.24 x 1.57 x 5.2 inch

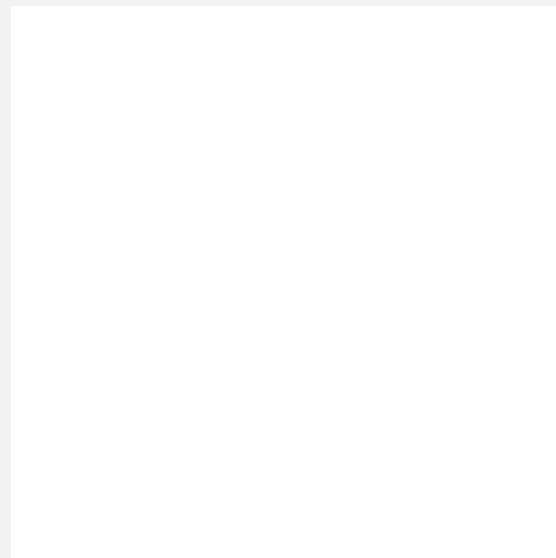




Creators & Home Users



A secure digital hub built for personal content creation and home entertainment. Featuring rich multimedia applications and AI-powered photo management, it easily fulfills your needs for high-capacity media storage, daily backups, and seamless file sharing.





Model Name	TS-462A	TS-262A	TS-364
SKU	TS-462A-4G	TS-262A-4G	TS-364-8G
CPU	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz	Intel® Celeron® N5095 4C/4T processor, up to 2.9 GHz
GPU	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
NPU (TOPS)	-	-	-
System RAM	4 GB SODIMM DDR4	4 GB SODIMM DDR4	8 GB RAM
Maximum RAM	16 GB (2 x 8 GB)	16 GB (2 x 8 GB)	8 GB
RAM Slot	2 x SODIMM DDR4	2 x SODIMM DDR4	-
Drive Bay	4 x 3.5"/2.5" SATA	2 x 3.5"/2.5" SATA	3 x 3.5"/2.5" SATA
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 x2)
LAN Port	1 x 2.5GbE RJ45	1 x 2.5GbE RJ45	1 x 2.5GbE (2.5G/1G/100M)
USB Port	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	2 x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A	1 x USB 3.2 Gen 1 Type-A 2 x USB 3.2 Gen 2 Type-A
HDMI Output	-	-	1, HDMI™ 1.4b (up to 4096 x 2160 @ 30Hz)
Power Supply Unit	65 W adapter, 100-240V	48 W adapter, 100-240V	65 W adapter, 100 - 240V
Form Factor	Tower	Tower	Tower
Dimensions (HxWxD)	165 x 170 x 226.5 mm 6.5 x 6.69 x 8.92 inch	165 x 105 x 226.5 mm 6.5 x 4.13 x 8.92 inch	146 x 142 x 257.1 mm 5.75 x 5.59 x 10.12 inch



Model Name	HS-264	TS-433	TS-233
SKU	HS-264-8G	TS-433-4G	TS-233
CPU	Intel® Celeron® N5105 4C/4T processor, up to 2.9 GHz	ARM 4-core Cortex-A55 processor, up to 2.0 GHz	ARM 4-core Cortex-A55 processor, up to 2.0 GHz
GPU	Intel® UHD Graphics	ARM Mali-G52 2EE	ARM Mali-G52 2EE
NPU (TOPS)	-	1 TOPS	1 TOPS
System RAM	8 GB, not expandable	4 GB, not expandable	2 GB, not expandable
Maximum RAM	8 GB, not expandable	4 GB on board (non-expandable)	2 GB on board (non-expandable)
RAM Slot	-	-	-
Drive Bay	2 x 3.5"/2.5" SATA	4 x 3.5"/2.5" SATA	2 x 3.5"/2.5" SATA
M.2 Slot	-	-	-
LAN Port	2 x 2.5GbE (2.5G/1G/100M/10M)	1 x 1GbE (RJ45) 1 x 2.5GbE (2.5G/1G/100M)	1 x 1GbE (RJ45)
USB Port	2 x USB 3.2 Gen 2 Type-A	1 x USB 2.0 Type-A 1 x USB 3.2 Gen 1 Type-A	2 x USB 2.0 Type-A 1 x USB 3.2 Gen 1 Type-A
HDMI Output	2 x HDMI 2.0 (up to resolution 3840 x 2160 @ 60Hz)	-	-
Power Supply Unit	60 W adapter, 100-240V	Minimum 65 W adapter (12VDC), 100-240VAC	Minimum 48 W adapter (12VDC), 100-240VAC
Form Factor	Set-top design	Tower	Tower
Dimensions (HxWxD)	39 x 302 x 220 mm 1.54 x 11.89 x 8.66 inch	165 x 160.2 x 220.5 mm 6.5 x 6.31 x 8.68 inch	186 x 91.7 x 157.6 mm 7.32 x 3.61 x 6.2 inch

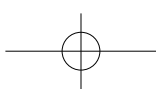
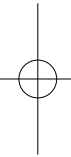
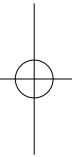


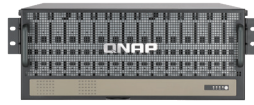
TS-133	TS-216G
TS-133	TS-216G
ARM 4-core Cortex-A55 processor, up to 1.8 GHz	ARM 4-core Cortex-A55 processor, up to 2.0 GHz
ARM Mali-G52 2EE	ARM Mali-G52 2EE
1 TOPS	1 TOPS
2 GB, not expandable	4 GB, not expandable
2 GB on board (non-expandable)	4 GB on board (non-expandable)
-	-
1 x 3.5"/2.5" SATA	2 x 3.5"/2.5" SATA
-	-
1 x 1GbE (RJ45)	1 x 1GbE RJ45 1 x 2.5GbE (2.5G/1G/100M)
1 x USB 2.0 Type-A 1 x USB 3.2 Gen 1 Type-A	2 x USB 2.0 Type-A, 1 x USB 3.2 Gen 1 Type-A
-	-
Minimum 36 W Adapter (12VDC), 100-240VAC	Minimum 48 W adapter (12VDC), 100-240VAC
Tower	Tower
186 x 66.1 x 157.6 mm 7.32 x 2.6 x 6.2 inch	165 x 102 x 220.6 mm 6.5 x 4.02 x 8.69 inch



Expansion Unit

Delivers flexible, plug-and-play storage expansion solutions. Seamlessly scale the storage capacity of your NAS, servers, or PCs from terabytes to petabytes using a comprehensive range of JBOD and hardware RAID expansion enclosures.





Model Name	TL-R6020Sep-RP	TL-R1620Sep-RP	TL-R1620Sdc
Type	JBOD	JBOD	JBOD
Drive Bay	60 x 3.5" SAS/SATA HDD	16 x 3.5" SAS/SATA HDD	16 x 3.5" / 2.5" SAS HDD/SSD
External Ports	4 x SAS 12Gb/s Mini-SAS HD (SFF-8644)	4 x SAS 12Gb/s Mini-SAS HD (SFF-8644)	3 x SAS 12Gb/s Mini-SAS HD (SFF-8644) per controller
Power Supply Unit	2 x 1300W PSU	2 x 550W PSU	2 x 550W PSU
Form Factor	4U Rackmount	3U Short Depth Rackmount	3U Rackmount
Dimensions (HxWxD, mm inch)	176 x 482 x 750 mm 6.93 x 18.98 x 29.53 inch	131.3 x 482.2 x 425.3 mm 5.17 x 18.98 x 16.74 inch	131.3 x 482.2 x 425.3 mm 5.17 x 18.98 x 16.74 inch
Net Weight (kg / pounds)	25.2 kg 55.6 lbs	11.48 kg 25.3 lbs	15.07 kg 33.2 lbs
Cable	Optional SAS cable	1 x 0.5 m Mini-SAS HD cable (SFF-8644 to SFF-8644)	2 x 0.5 m Mini-SAS HD cable (SFF-8644 to SFF-8644)
Rail Kit	RAIL-H01	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)
Supported O.S.	QuTS hero	QTS, QuTS hero	QES, Windows
Management Utility	Managed via QNAP QuTS hero OS	Managed via QNAP QTS / QuTS hero OS	NAS QES OS, JBOD Manager for Windows



Model Name	TL-R1220Sep-RP	TL-R2400PES-RP	TL-R1600PES-RP
Type	JBOD	JBOD	JBOD
Drive Bay	12 x 3.5" SAS/SATA HDD	24 x 3.5" SATA HDD	16 x 3.5" SATA HDD
External Ports	4 x SAS 12Gb/s Mini-SAS HD (SFF-8644)	2 x SFF-8644 1x2 (in, out)	2 x SFF-8644 1x2 (in, out)
Power Supply Unit	2 x 300W PSU	2 x 550W PSU	2 x 550W PSU
Form Factor	2U Short Depth Rackmount	4U Rackmount	3U Short Depth Rackmount
Dimensions (HxWxD, mm inch)	88.65 x 482 x 370.65 mm .49 x 18.98 x 14.59 inch	176.15 x 442.4 x 630.2 mm 6.94 x 17.42 x 24.81 inch	131.3 x 432.4 x 370.85 mm 5.17 x 17.02 x 14.60 inch
Net Weight (kg / pounds)	9.19 kg 20.3 lbs	18.67 kg 41.2 lbs	11.56 kg 25.5 lbs
Cable	1 x 0.5 m Mini-SAS HD cable (SFF-8644 to SFF-8644)	1 m CAB-PCIE10M-8644-8X cable	1 m CAB-PCIE10M-8644-8X cable
Rail Kit	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)	RAIL-A02-90 (optional)	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)
Supported O.S.	QTS, QuTS hero	QTS, QuTS hero	QTS, QuTS hero
Management Utility	Managed via QNAP QTS / QuTS hero OS	Managed via QNAP QTS / QuTS hero OS	Managed via QNAP QTS / QuTS hero OS



Model Name	TL-R1200PES-RP	TL-D1600S	TL-D800S
Type	JBOD	JBOD	JBOD
Drive Bay	12 x 3.5" SATA HDD	12 x 3.5" SATA HDD + 4 x 2.5" SATA SSD	8 x 3.5" SATA HDD
External Ports	2 x SFF-8644 1x2 (in, out)	4 x SFF-8088	2 x SFF-8088
Power Supply Unit	2 x 300W PSU	250W PSU	250W PSU
Form Factor	2U Short Depth Rackmount	Tower	Tower
Dimensions (HxWxD, mm inch)	88.65 x 432 x 370.65 mm 3.49 x 17.01 x 14.59 inch	303.84 x 369.89 x 319.8 mm 11.96 x 14.56 x 12.59 inch	188.2 x 329.3 x 279.6 mm 7.41 x 12.96 x 11.01 inch
Net Weight (kg / pounds)	9.22 kg 20.3 lbs	13.49 kg 29.7 lbs	8.13 kg 17.9 lbs
Cable	1 m CAB-PCIE10M-8644-8X cable	4 x 1 m Mini-SAS cable (SFF-8088 to SFF-8644)	2 x 1 m Mini-SAS cable (SFF-8088 to SFF-8088)
Rail Kit	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)	-	-
Supported O.S.	QTS, QuTS hero	QTS, QuTS hero, Windows, Ubuntu	QTS, QuTS hero, Windows, Ubuntu
Management Utility	Managed via QNAP QTS / QuTS hero OS	QNAP JBOD Manager for Windows, Ubuntu	QNAP JBOD Manager for Windows, Ubuntu



Model Name	TL-D400S	TL-R1200S-RP	TL-R400S
Type	JBOD	JBOD	JBOD
Drive Bay	4 x 3.5" SATA HDD	12 x 3.5" SATA HDD	4 x 3.5" SATA HDD
External Ports	1 x SFF-8088	3 x SFF-8088	1 x SFF-8088
Power Supply Unit	65W adapter, 100-240V	2 x 250W PSU	100W PSU, 100-240V
Form Factor	Tower	2U Rackmount	1U Short Depth Rackmount
Dimensions (HxWxD, mm inch)	168.5 x 160.2 x 219 mm 6.63 x 6.31 x 8.62 inch	88.6 x 482 x 562.5 mm 3.49 x 18.98 x 22.15 inch	43.9 x 438.9 x 291.1 mm 1.73 x 17.28 x 11.46 inch
Net Weight (kg / pounds)	3.43 kg 7.6 lbs	13.17 kg 29.0 lbs	4.92 kg 10.8 lbs
Cable	1 x 1 m Mini-SAS cable (SFF-8088 to SFF-8088)	3 x Mini-SAS cable (SFF-8644 to SFF-8088)	1 x 1 m Mini-SAS cable (SFF-8088 to SFF-8088)
Rail Kit	-	RAIL-B02 (optional)	RAIL-S01 / RAIL-S02 / RAIL-B02 (optional)
Supported O.S.	QTS, QuTS hero, Windows, Ubuntu	QTS, QuTS hero, Windows, Ubuntu	QTS, QuTS hero, Windows, Ubuntu
Management Utility	QNAP JBOD Manager for Windows, Ubuntu	QNAP JBOD Manager for Windows, Ubuntu	QNAP JBOD Manager for Windows, Ubuntu



TR-002	TR-004	TR-005	TR-004U
Hardware RAID	Hardware RAID	Hardware RAID	Hardware RAID
2 x 3.5" / 2.5" SATA HDD/SSD	4 x 3.5" / 2.5" SATA HDD/SSD	5 x 3.5" / 2.5" SATA HDD/SSD	4 x 3.5" / 2.5" SATA HDD/SSD
1 x USB 3.2 Gen 2 (10Gbps) Type-C	1 x USB 3.2 Gen1 Type-C	1 x USB 3.2 Gen2x2 Type-C	1 x USB 3.2 Gen 1 Type-C
Minimum 36W adapter (12VDC), 100-240VAC	Minimum 60W adapter (12VDC), 100-240VAC	65W adapter, 100-240V	Open-frame 100W, Input: 100V-240V ~ / 3.5A, 50Hz-60Hz
Tower	Tower	Tower	1U Short Depth Rackmount
168.5 x 102 x 219 mm 6.63 x 4.02 x 8.62 inch	168.5 x 160.2 x 219 mm .63 x 6.31 x 8.62 inch	171 x 240 x 232 mm 6.73 x 9.45 x 9.13 inch	44 x 439 x 291 mm 1.73 x 17.28 x 11.46 inch
1.37 kg 3.0 lbs	3.18 kg 7.0 lbs	2.56 kg 5.64lbs	4.77 kg 10.5 lbs
1 x USB Type-C to Type-A connector cable	1x USB 3.2 Gen1x1 C to A cable	1 x USB Type-C to Type-A connector cable	1 x USB Type-C to Type-A connector cable
-	-	-	RAIL-S01 (optional)
QTS, QuTS hero, Windows, macOS, Ubuntu Linux	QTS, QuTS hero, Windows, macOS, Ubuntu Linux	QTS, QuTS hero, Windows, macOS, Ubuntu Linux	QTS, QuTS hero, Windows, macOS, Ubuntu Linux
External RAID Manager for Windows, macOS, Ubuntu Linux	External RAID Manager for Windows, macOS, Ubuntu Linux	External RAID Manager for Windows, macOS, Ubuntu Linux	External RAID Manager for Windows, macOS, Ubuntu Linux

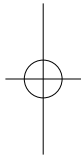
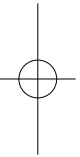


TL-R1210TC4-RP	TL-R1200C-RP	TL-D810TC4	TL-D800C
USB JBOD	USB JBOD	USB JBOD	USB JBOD
12 x 3.5" / 2.5" SATA HDD/SSD	12 x 3.5" / 2.5" SATA HDD/SSD	8 x 3.5" / 2.5" SATA HDD/SSD	8 x 3.5" / 2.5" SATA HDD/SSD
1 x USB 4 (40Gbps) Type-C	1 x USB 3.2 Gen 2 Type-C	1 x USB 4 (40Gbps) Type-C	1 x USB 3.2 Gen 2 Type-C
2 x 250W PSU, 100-240V	2 x 250W PSU, 100-240V	250W PSU, 100-240V	250W PSU, 100-240V
2U Rackmount	2U Rackmount	Tower	Tower
88.65 x 432 x 370.85 mm 3.49 x 17.01 x 14.60 inch	88.6 x 482 x 562.5 mm 3.49 x 18.98 x 22.15 inch	188.2 x 329.3 x 281.4 mm 7.41 x 12.96 x 11.08 inch	188.2 x 329.3 x 281.4 mm 7.41 x 12.96 x 11.08 inch
9.17 kg 20.2 lbs	13.17 kg 29.0 lbs	6.18 kg 13.6 lbs	8.13 kg 17.9 lbs
1 x USB 4 Type-C to Type-C cable	1 x USB 3.2 Gen 2 Type-C to Type-A cable	1 x USB 4 Type-C to Type-C cable	1 x USB Type-C to Type-A cable
RAIL-B02 (optional)	RAIL-B02 (optional)	-	-
QTS, QuTS hero, Windows, Ubuntu Linux	QTS, QuTS hero, Windows, Ubuntu Linux	QTS, QuTS hero, Windows, macOS, Ubuntu Linux	QTS, QuTS hero, Windows, Ubuntu Linux
QNAP JBOD Manager for Windows, Ubuntu	QNAP JBOD Manager for Windows, Ubuntu	QNAP JBOD Manager for Windows, macOS, Ubuntu	QNAP JBOD Manager for Windows, Ubuntu



Networking

Next-generation networking solutions designed to break bandwidth bottlenecks. Covering a comprehensive range of switches, QNAP helps you easily upgrade to 2.5GbE/10GbE/25GbE/100GbE high-speed networks, building a secure and easy-to-manage IT infrastructure.





Model Name	QSW-M7308R-4X	QSW-M7230-2X4F24T	QSW-M7230P-2X4F24T
Management Type	L3 Lite Web Managed	L3 Lite Web Managed	L3 Lite Web Managed
1GbE / 2.5GbE (RJ45)	-	-	-
10GbE (BASE-T / SFP+ / Combo)	-	24 / - / -	24 / - / -
25GbE SFP28 / 100GbE QSFP28	8 / 4	4 / 2	4 / 2
Management Port	1 x 1GbE RJ45	1 x 1GbE RJ45	1 x 1GbE RJ45
PoE Ports & Power Budget	-	-	24×802.3bt (90W) / 800W
Power Supply / Max. Power Consumption	Internal / 55.153W	Internal / 158.21W	Internal / 1059.4W
MAC Address Table	32K	32K	32K
Jumbo Frames	9K	9K	9K
Dimensions (H x W x D) / Weight (Net)	43.3 x 207 x 248.8 mm / 1.78 kg	44 x 439 x 190 mm / 3.1 kg	44 x 439 x 285 mm / 4.56 kg
Operating Temperature	0°C to 40°C	0°C to 40°C	-20°C to 50°C
VLAN	V	V	V
Link Aggregation	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
Loop Prevention	RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection
Multicast	IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering
QoS	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits
Security	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
QNAP Exclusive Security	ADRA NDR, Airgap+	ADRA NDR, Airgap+	ADRA NDR, Airgap+
MC-LAG	V	V	V
L3 Features	IPv4 Static Routing, IPv6 Static Routing, DHCP Server	IPv4 Static Routing, IPv6 Static Routing, DHCP Server	IPv4 Static Routing, IPv6 Static Routing, DHCP Server
PTP	TC	TC/BC	TC/BC
Cloud Management & Deployment	AMIZ Cloud, DHCP Auto Configuration	AMIZ Cloud, DHCP Auto Configuration	AMIZ Cloud, DHCP Auto Configuration



Model Name	QSW-M5216-1T	QSW-M5218-6F12T	QSW-M5218P-6F12T
Management Type	L2 Web Managed	L3 Lite Web Managed	L3 Lite Web Managed
1GbE / 2.5GbE (RJ45)	-	-	-
10GbE (BASE-T / SFP+ / Combo)	1 / - / -	12 / - / -	12 / - / -
25GbE SFP28 / 100GbE QSFP28	16 / -	6 / -	6 / -
Management Port	1 x 1GbE RJ45	1 x 1GbE RJ45	1 x 1GbE RJ45
PoE Ports & Power Budget	-	-	12×802.3bt (90W) / 470W
Power Supply / Max. Power Consumption	Internal / 32.602W	Internal / 60.91W	Internal / 608.75W
MAC Address Table	32K	32K	32K
Jumbo Frames	9K	10K	10K
Dimensions (H x W x D) / Weight (Net)	43.5 x 285 x 237.7 mm / 2.15 kg	44 x 439 x 190 mm / 2.74 kg	44 x 439 x 285 mm / 4.19 kg
Operating Temperature	0°C to 40°C	-20°C to 40°C	-20°C to 40°C
VLAN	V	V	V
Link Aggregation	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
Loop Prevention	RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection
Multicast	IGMP Snooping	IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering
QoS	CoS Mapping, DSCP Mapping	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits
Security	MAC ACL, IPv4 ACL	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
QNAP Exclusive Security	-	ADRA NDR, Airgap+	ADRA NDR, Airgap+
MC-LAG	-	V	V
L3 Features	-	IPv4 Static Routing, IPv6 Static Routing, DHCP Server	IPv4 Static Routing, IPv6 Static Routing, DHCP Server
PTP	-	-	-
Cloud Management & Deployment	-	AMIZ Cloud, DHCP Auto Configuration	AMIZ Cloud, DHCP Auto Configuration



QSW-IM3216-8S8T	QSW-L3205-1C4T	QSW-L3208-2C6T	QSW-M3212R-8S4T
L2 Web Managed	Lite Managed	Lite Managed	L2 Web Managed
-	-	-	-
8 / 8 / -	4 / - / 1	6 / - / 2	4 / 8 / -
-	-	-	-
1 x 1GbE RJ45	-	-	1 x 1GbE RJ45
-	-	-	-
External / 48.632W	External / 36W	External / 36W	Internal / 32.825W
16K	16K	16K	16K
9K	12K	12K	9K
43.5 x 285 x 231.5 mm / 4.26 kg	44 x 210 x 160 mm / 1.17 kg	44 x 210 x 160 mm / 1.29 kg	43.3 x 207 x 199.5 mm / 1.48 kg
Natural convection (0.5~0.7 m/s): -30~65°C; without natural convection: -30~45°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
V	V	V	V
Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
RSTP, Loop Protection	Loop Protection	Loop Protection	RSTP, Loop Protection
IGMP Snooping, Multicast Filtering	IGMP Snooping	IGMP Snooping	IGMP Snooping, Multicast Filtering
CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits
MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	-	-	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
ADRA NDR, Airgap+	-	-	ADRA NDR, Airgap+
-	-	-	-
-	-	-	-
-	-	-	-
AMIZ Cloud, DHCP Auto Configuration	-	-	AMIZ Cloud, DHCP Auto Configuration



Model Name	QSW-M3216R-8S8T	QSW-M3224-24T	QSW-M2108-2C
Management Type	L2 Web Managed	L3 Lite Web Managed	L2 Web Managed
1GbE / 2.5GbE (RJ45)	-	-	- / 8
10GbE (BASE-T / SFP+ / Combo)	8 / 8 / -	24 / - / -	- / - / 2
25GbE SFP28 / 100GbE QSFP28	-	-	-
Management Port	1 x 1GbE RJ45	1 x 1GbE RJ45	-
PoE Ports & Power Budget	-	-	-
Power Supply / Max. Power Consumption	Internal / 48.632W	Internal / 116.9W	External / 36W
MAC Address Table	16K	32K	16K
Jumbo Frames	9K	9K	9K
Dimensions (H x W x D) / Weight (Net)	43.3 x 207 x 199.5 mm / 1.52 kg	44.2 x 438.5 x 190 mm / 2.93 kg	42.5 x 290 x 127 mm / 1.12 kg
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
VLAN	V	V	V
Link Aggregation	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
Loop Prevention	RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection
Multicast	IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering
QoS	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping
Security	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	MAC ACL, IPv4 ACL, IPv6 ACL, 802.1x, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection	MAC ACL, IPv4 ACL
QNAP Exclusive Security	ADRA NDR, Airgap+	ADRA NDR, Airgap+	-
MC-LAG	-	V	-
L3 Features	-	IPv4 Static Routing, IPv6 Static Routing, DHCP Server	-
PTP	-	TC	-
Cloud Management & Deployment	AMIZ Cloud, DHCP Auto Configuration	AMIZ Cloud, DHCP Auto Configuration	-



QSW-M2108-2S	QSW-M2108R-2C	QSW-L2110-10T	QSW-L2110-2S8T
L2 Web Managed	L2 Web Managed	Lite Managed	Lite Managed
- / 8	- / 8	- / 8	- / 8
- / 2 / -	- / - / 2	2 / - / -	- / 2 / -
-	-	-	-
-	-	-	-
-	-	-	-
External / 23W	Internal / 36W	External / 18W	External / 12W
16K	16K	16K	16K
9K	9K	12K	12K
42.5 x 290 x 127 mm / 1.12 kg	43.3 x 207 x 199.5 mm / 1.2 kg	27 x 240 x 105 mm / 0.69 kg	27 x 240 x 105 mm / 0.63 kg
0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
V	V	V	V
Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection
IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering	IGMP Snooping	IGMP Snooping
CoS Mapping, DSCP Mapping	CoS Mapping, DSCP Mapping	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits
MAC ACL, IPv4 ACL	MAC ACL, IPv4 ACL	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



Model Name	QSW-M2130-4C2S24T	QSW-M2130P-2C2S26T	QSW-M408-4C
Management Type	L2 Web Managed	L2 Web Managed	L2 Web Managed
1GbE / 2.5GbE (RJ45)	- / 24	- / 24	8 / -
10GbE (BASE-T / SFP+ / Combo)	- / 2 / 4	2 / 2 / 2	- / - / 4
25GbE SFP28 / 100GbE QSFP28	-	-	-
Management Port	-	-	-
PoE Ports & Power Budget	-	16×45W + 12×802.3bt (90W) / 375W	-
Power Supply / Max. Power Consumption	Internal / 70W	Internal / 455W	External / 31.46W
MAC Address Table	32K	32K	16K
Jumbo Frames	12K	12K	9K
Dimensions (H x W x D) / Weight (Net)	44 x 440 x 205 mm / 3.06 kg	44 x 440 x 205 mm / 3.54 kg	42.5 x 290 x 127 mm / 1.15 kg
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 40°C
VLAN	V	V	V
Link Aggregation	Link Aggregation, LACP	Link Aggregation, LACP	Link Aggregation, LACP
Loop Prevention	RSTP, Loop Protection	RSTP, Loop Protection	RSTP, Loop Protection
Multicast	IGMP Snooping	IGMP Snooping	IGMP Snooping, Multicast Filtering
QoS	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping, Rate Limits	CoS Mapping, DSCP Mapping
Security	MAC ACL, IPv4 ACL, IPv6 ACL	MAC ACL, IPv4 ACL, IPv6 ACL	MAC ACL, IPv4 ACL
QNAP Exclusive Security	ADRA NDR	ADRA NDR	-
MC-LAG	-	-	-
L3 Features	-	-	-
PTP	-	-	-
Cloud Management & Deployment	-	-	-



QSW-M408-2C	QSW-M408S
L2 Web Managed	L2 Web Managed
8 / -	8 / -
- / 2 / 2	- / 4 / -
-	-
-	-
External / 22.04W	External / 12.17W
16K	16K
9K	9K
42.5 x 290 x 127 mm / 1.15 kg	42.5 x 290 x 127 mm / 1.145 kg
0°C to 40°C	0°C to 40°C
V	V
Link Aggregation, LACP	Link Aggregation, LACP
RSTP, Loop Protection	RSTP, Loop Protection
IGMP Snooping, Multicast Filtering	IGMP Snooping, Multicast Filtering
CoS Mapping, DSCP Mapping	CoS Mapping, DSCP Mapping
MAC ACL, IPv4 ACL	MAC ACL, IPv4 ACL
-	-
-	-
-	-
-	-
-	-

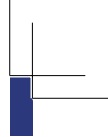
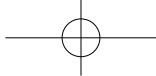


Model Name	QSW-1108-8T-R2	QSW-2104-2T-R2	QSW-2104-2S
Management Type	Unmanaged	Unmanaged	Unmanaged
1GbE / 2.5GbE (RJ45)	- / 8	- / 4	- / 4
10GbE (BASE-T / SFP+ / Combo)	-	2 / - / -	- / 2 / -
25GbE SFP28 / 100GbE QSFP28	-	-	-
Management Port	-	-	-
PoE Ports & Power Budget	-	-	-
Power Supply / Max. Power Consumption	External / 12W	External / 18W	External / 12W
MAC Address Table	4K	4K	16K
Jumbo Frames	12K	12K	9K
Dimensions (H x W x D) / Weight (Net)	26 x 160 x 110 mm / 0.5 kg	26 x 160 x 110 mm / 0.45 kg	34 x 180 x 145 mm / 0.713 kg
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
VLAN	N/A	N/A	N/A
Link Aggregation	N/A	N/A	N/A
Loop Prevention	Loop Protection	Loop Protection	Loop Protection
Multicast	N/A	N/A	N/A
QoS	N/A	N/A	N/A
Security	N/A	N/A	N/A
QNAP Exclusive Security	N/A	N/A	N/A
MC-LAG	N/A	N/A	N/A
L3 Features	N/A	N/A	N/A
PTP	N/A	N/A	N/A
Cloud Management & Deployment	N/A	N/A	N/A



QSW-3205-5T	QSW-3216R-8S8T
Unmanaged	Unmanaged
-	-
5 / - / -	8 / 8 / -
-	-
-	-
-	-
External / 36W	Internal / 48.632W
16K	16K
12K	9K
34 x 180 x 145 mm / 0.96 kg	43.3 x 207 x 199.5 mm / 1.52 kg
0°C to 40°C	0°C to 40°C
N/A	N/A
N/A	N/A
Loop Protection	Loop Protection
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

V = supported; - = not supported; N/A = unmanaged model. Multi-feature cells list supported sub-features.



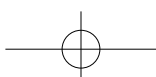
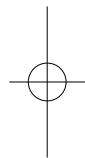
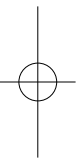
Accessories

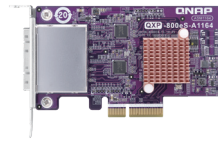
Official accessories to unlock the limitless potential of your NAS. Featuring JBOD storage expansion enclosures, QM2 PCIe expansion cards, and network expansion cards, these accessories allow your system to scale flexibly with your business needs and extend the device's lifecycle.

Networking & Connectivity

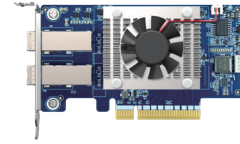
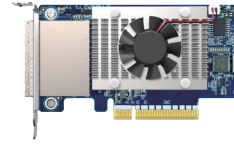
Storage & Compute Upgrades

Chassis & Power Infrastructure

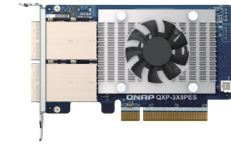
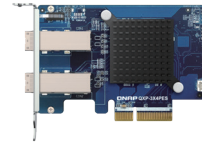




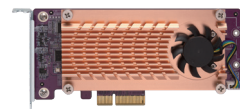
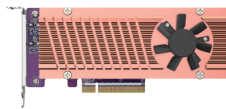
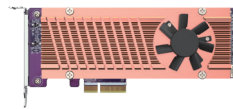
Model	QXP-400eS-A1164	QXP-800eS-A1164	QXP-1600eS-A1164
Description	Quad-port SATA expansion card	8-port SATA expansion card	16-port SATA expansion card



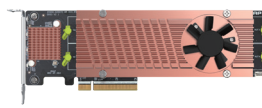
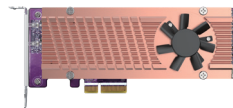
Model	QXP-40G2UC	QXP-1630S-3816	QXP-830S-3808
Description	USB 4 dual-port expansion card	Quad-port External SAS 12Gb/s storage expansion card	Dual-port External SAS 12Gb/s storage expansion card



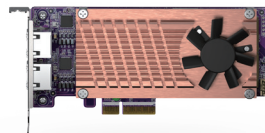
Model	QXP-10G2U3A	QXP-3X4PES	QXP-3X8PES
Description	USB 3.2 Gen 2 dual-port PCIe expansion card	2-port PCIe Gen3 x4 expansion card	2-port PCIe Gen3 x8 expansion card



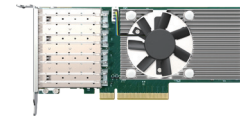
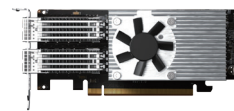
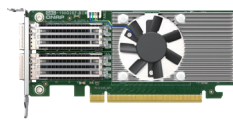
Model	QM2-2P-344A	QM2-2P-384A	QM2-2S-220A
Description	Dual M.2 22110/2280 PCIe NVMe SSD expansion card	Dual M.2 22110/2280 PCIe NVMe SSD expansion card	Dual M.2 22110/2280 SATA SSD expansion card



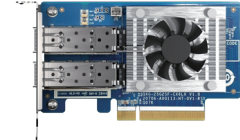
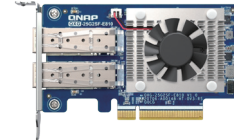
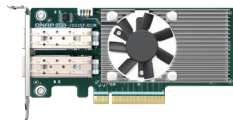
Model	QM2-2P-244A	QM2-4P-384	QM2-2P10G1TB
Description	Dual M.2 22110/2280 PCIe NVMe SSD expansion card	Quad M.2 2280 PCIe NVMe SSD expansion card	Dual M.2 2280 PCIe NVMe SSD & single-port 10GbE expansion card



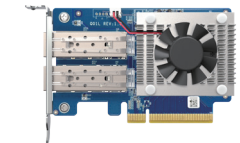
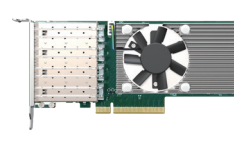
Model	QM2-2P2G2T
Description	Dual M.2 2280 PCIe SSD & dual-port 2.5GbE expansion card



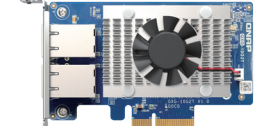
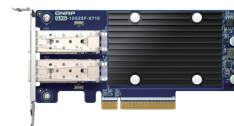
Model	QXG-100G2SF-BCM	QXG-100G2SF-E810	QXG-25G4SF-BCM
Description	Dual-port 100 GbE network expansion card	Dual-port 100 GbE network expansion card	Quad-port 25 GbE network expansion card
Connector	QSFP28	QSFP28	SFP28



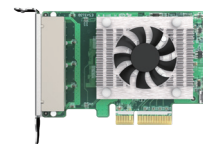
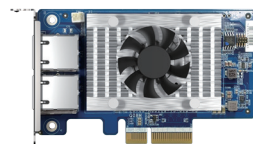
Model	QXG-25G2SF-BCM	QXG-25G2SF-E810	QXG-25G2SF-CX6
Description	Dual-port 25 GbE network expansion card	Dual-port 25 GbE network expansion card	Dual-port 25 GbE network expansion card
Connector	SFP28	SFP28	SFP28



Model	QXG-10G1TD	QXG-10G4SF-BCM	QXG-10G2SF-NXE
Description	Single-port, 10 GbE network expansion card	Quad-port 10 GbE network expansion card	Dual-port 10 GbE network expansion card
Connector	RJ45	SFP+	SFP+



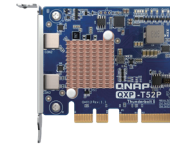
Model	QXG-ES10G1T	QXG-10G2SF-X710	QXG-10G2T
Description	Single-port, 5-speed 10 GbE network expansion card	Dual-port 10 GbE network expansion card	Dual-port, 5-speed 10 GbE network expansion card
Connector	RJ45	SFP+	RJ45



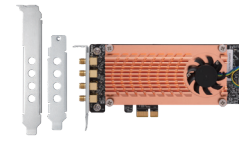
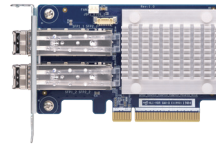
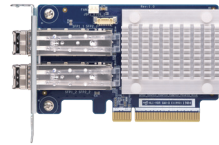
Model	QXG-10G2T-X710	QXG-2G4T-I225	QXG-2G2T-I225
Description	Dual-port, 5-speed 10 GbE network expansion card	Quad-port 2.5 GbE network expansion card	Quad-port 2.5 GbE network expansion card
Connector	RJ45	RJ45	RJ45



Model	QNA-UC10G2T	QNA-UC10G2SF	QNA-UC25G2SF
Description	USB 4 Type C to dual-port 10GBASE-T adapter	USB 4 Type C to dual-port 10GbE SFP+ adapter	USB 4 Type C to dual-port 25GbE SFP28 adapter



Model	QNA-UC10G1T	QNA-UC10G1SF	QXP-T52P
Description	USB 4 Type C to single-port 10GBASE-T adapter	USB 4 Type C to single-port 10GbE SFP+ adapter	Thunderbolt™ 5 Expansion Card



Model	QXP-16G2FC	QXP-32G2FC	QWA-AC2600
Description	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	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



Model	QAI-U100	QAI-M100	QDA-UMP4A
Description	USB AI Accelerator	M.2 2280 PCIe AI Accelerator	Use an M.2 PCIe NVMe SSD in a U.2 PCIe NVMe SSD drive bay for QNAP NAS



Model	QDA-UMP4	QDA-A2AR	QDA-A2MAR
Description	Use an M.2 PCIe NVMe SSD in a U.2 PCIe NVMe SSD drive bay for PC and NAS	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



QNAP SYSTEMS, INC.

www.qnap.com

QNAP Systems, Inc.

New Taipei City
Email: sales@qnap.com
Tel: +886 2 2641 2000

QNAP Inc. (USA)

Pomona CA
Email: usasales@qnap.com
Tel: +1-909-595-2782

QNAP Inc. (Canada)

Markham, Ontario
Email: canadasales@qnap.com
Tel: +1-905-947-1000

QNAP GmbH (Germany)

München
Email: desales@qnap.com
Tel: +49-(0)215-4884-2816

QNAP SRL (Italy)

Roma
Email: eusales@qnap.com
Tel: +39-(0)687-738456

QNAP UK Limited

Swindon
Email: uksales@qnap.com
Tel: +44-(0)333-344-2522

QNAP Japan

Tokyo
Email: jpsales@qnap.com
Tel: +81-3-5901-9735

QNAP Korea

Seoul
Email: krsales@qnap.com



Copyright © 2026 QNAP Systems, Inc. All rights reserved.

QNAP® and other names of QNAP Products are proprietary marks or registered trademarks of QNAP Systems, Inc. Other products and company names mentioned herein are trademarks of their respective holders. QNAP reserves the right to modify or revise this guide and related statements at any time. Product specifications and descriptions are subject to change without notice. For full specifications, please visit www.qnap.com

P/N: 51000-025673-RS | 202608 (EN)A