

軟體規格

Operating System

- QTS 4.1.4 (embedded Linux)

Supported Clients

- Windows XP/Vista, Windows 7 (32/64-bit), Windows 8 (32/64-bit), Windows Server 2003/2008 R2/2012, Apple Mac OS X, Linux & UNIX

Supported Browsers

- Google Chrome
- Microsoft Internet Explorer 10+
- Mozilla Firefox 8+
- Apple Safari

Multilingual Support

- Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish

File System

- Internal Hard Drive: EXT4
- External Hard Drive: EXT3, EXT4, NTFS, FAT32, HFS+

Networking

- TCP/IP (IPv4 & IPv6: Dual Stack)
- Quad Gigabit NICs with jumbo frame (failover, multi-IP settings, port trunking/NIC teaming)
- Service binding based on network interfaces
- Proxy server (Squid available in App Center)
- Proxy client
- DHCP client, DHCP server
- Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and S/MSC
- UPnP & Bonjour Discovery
- USB Wi-Fi Adapter Support

Security

- Network access protection with auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP
- CIFS host access control for shared folders
- FIPS 140-2 validated AES 256-bit volume-based data encryption*
- AES 256-bit external drive encryption*
- Importable SSL certificates
- Instant alert via e-mail, SMS, beep, and LCD panel
- SomeThe data encryption functions may not be available in accordance with the legislative restrictions of some countries.

Storage Management

- QNAP flexible Volume/LUN with thin provisioning and space reclaim
- RAID 0,1,5,6,10,+ hot spare
- Supports storage pool
- Online volume expansion
- Online storage pool expansion
- Online RAID capacity expansion and online RAID level migration
- SMART data migration
- Storage expansion via QNAP TX-800P and TX-500P expansion unit
- Bad block scan and hard drive S.M.A.R.T.
- Bad block recovery
- RAID recovery
- Bitmap support

Power Management

- Wake on LAN
- Internal hard drive standby mode
- Scheduled power on/off
- Automatic power on after power recovery
- USB and network UPS support with SNMP management
- System sleep mode (S3)

Access Right Management

- Batch users creation
- Import/export users
- User quota management
- Local user access control for CIFS, AFP, FTP, and WebDAV
- Application access control for Photo Station, Music Station, Video Station, and Multimedia Station
- Subfolder permissions support for CIFS/SMB, AFP, FTP, and File Station

myQNAPcloud Service

- Private cloud storage and sharing with myQNAPcloud id (QID)
- Free host name registration (DDNS)
- Auto router (via UPnP) configuration

- Web-based file manager with HTTPS 2048-bit encryption
- Cloudlink for remote access without complicated router setup
- myQNAPcloud connect for easy VPN connection (Windows VPN utility)

Qsync

- Syncs files among multiple devices with SSL support
- Selective synchronization for syncing specific folders only
- Share team folder as a file center for team collaboration (Maximum sync tasks: 32)
- Shares files by links via email-mail
- Policy settings for conflicted files and file type filter support
- Version control: up to 64 versions
- Incremental synchronization for HDD space saving
- Supports Windows & Mac OS

Web Administration

- Multi-window, multi-tasking based system management
- Movable Icons and personalized desktop
- Smart toolbar and dashboard for neat system status display on system status
- Smart fan Control
- Dynamic DNS (DDNS)
- SNMP (v2 & v3)
- Network recycle bin for file deletion via CIFS/SMB, AFP, and File Station
- Automatic Cleanup
- File Type Filter
- Comprehensive logs (events & connection)
- syslog client/server
- System settings backup and restore
- Restore to factory default
- Mobile app: Qmanager for remote system monitoring & management

File Server

- File Sharing across Windows, Mac, and Linux/UNIX
- Windows ACL
- Advanced folder permission for CIFS/SMB, AFP, FTP
- Shared folder aggregation (CIFS/SMB)

FTP Server

- FTP over SSL/TLS (Explicit)
- FTP support
- Passive ftp port range control

File Station

- Supports ISO Mounting (Up to 256 ISO Files)
- Supports thumbnail display of multimedia files
- Supported sharing download links and upload links
- Drag-n-drop Files via Google Chrome and Mozilla Firefox Browsers
- Photo, music, and video preview and playback with hardware-accelerated transcoding
- File Compression (ZIP or 7z)
- Creation of and sending download links for sharing public files with expiration time and password protection
- Support for displaying subtitles display (*.SRT, UTF-8 format)
- Video seeking support for video playback during on-the-fly transcoding
- Support slideshow playback in media viewer
- Mobile App: Qfile for file browsing and management)

Backup Station

- Remote replication server (over rsync)
- Real-time remote replication (RTRR) to another QNAP NAS or FTP server
- Works as both RTRR server & client with bandwidth control
- Real-time & scheduled backup
- Encryption, compression, file filter, and transfer rate limitation
- Encrypted replication between QNAP NAS servers
- Desktop backup with QNAP NetBak Replicator for Windows
- Apple Time Machine backup support
- Data backup to multiple external storage devices
- Third party backup software support: Veeam backup & replication, Acronis True Image, Arcserve backup, EMC retrospect, Symantec Backup Exec, etc.

Cloud Storage Backup

- Amazon S3
- Amazon Glacier
- WebDAV-based cloud storage
- Microsoft Azure
- Open Stack
- Google Drive
- Dropbox
- ElephantDrive
- Symform

Print Server

- Max. number of printers: 3
- Support for Internet Printing Protocol
- Print job display and management
- IP-based and domain name-based privilege control

Virtualization Station

- Support Virtual Machine (VM) creation to run an operating system such as Windows, Linux, Unix and Android
- Support importing VM from the other virtual platform, e.g. VirtualBox, VMware Workstation
- Support exporting VM with *.ovf, *.qvm formats
- VM clone
- VM snapshot
- HTML5-based shared remote console
- User-based permission setting
- Support USB device pass-through
- Support VM console display via HDMI

HD (HybridDesk) Station 3.0

- Playbacks videos, music, photos on your TV with XBMC xbmc via HDMI hdmi output
- Watch various online contents such as YouTube, Flickr, Picasa, Shoutcast, and more, etc.
- Web browser (Chrome, Firefox)
- Supports USB U.S. keyboard and mouse
- Supports QNAP Qremote app and the official XBMC-C remote app
- 4 new desktop themes
- Supports user login permissions

Signage Station

- Supports dynamic content includings videos, images, music, and text messages
- Supports multi- users collaboration
- Supports searching via keywords,
- Supports sharing via email and social networks sharing
- Supports design software - iArtist Lite
- Supports account authority management
- Supports various web browsers for playback (Chrome, Firefox, IE, Safari)
- Supports most-viewed, latest-released and different categories content list

iSCSI (IP SAN)

- iSCSI target with multi-LUNs per target (Up to 256 targets/LUNs combined)
- Support for LUN mapping & masking
- Online LUN capacity expansion
- Support for SPC-3 persistent reservation
- Support for MPIO & MC/S
- iSCSI LUN backup, one-time snapshot, and restoration
- iSCSI connection and management by QNAP Windows Qfinder
- Virtual disk drive (via iSCSI initiator)
- Stack chaining master
- Max No. of virtual disk drives: 8
- Qget: Android
- Vmobile: iOS, iPad, Android

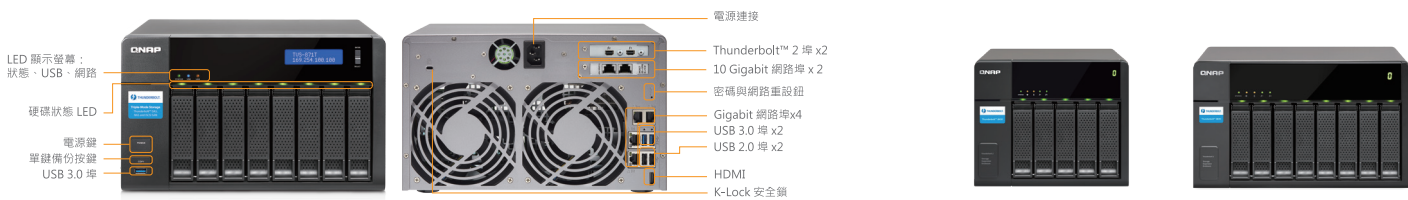
Server Virtualization & Clustering

- Server Virtualization & Clustering
- VMware vSphere (ESXi 5.x)
- VMware VAAI for iSCSI and VAAI for NAS
- vSphere Plug-in
- Citrix XenServer (6.2)
- Qsync: Windows, Mac
- NetBak Replicator: Windows
- QGet: Windows, Mac, Linux
- vSphere Client plug-in: Windows
- Qsnap: Windows

Surveillance Station

- Supports over 2,100 IP ip cameras
- Includes 4 free camera licenses, up to 72 camera channels via additional license purchase
- Instant playback to check the recent events
- Online editing to change edit cameras when in live view
- Visual aid by using e-maps
- Playback and speed control by shuttle bar
- Video preview using on playback timeline
- Intelligent Video Analytics (IVAiva) for advanced video search
- Surveillance client for Mac
- Mobile surveillance app: Vmobile (iOS and Android)

硬體規格



處理器	TVS-871T-i5-16G : Intel® Core™ i5-4590S 3.0GHz 四核處理器 TVS-871T-i7-16G : Intel® Core™ i7-4790S 3.2GHz 四核處理器
浮點運算	✓
硬體加密技術	✓
記憶體	記憶體 : 16 GB DDR3 RAM (8GB x2) 記憶體插槽總計 : 2 SODIMM
快閃記憶體	512MB
Thunderbolt™ 2 傳輸埠	兩個 Thunderbolt™ 2 高速傳輸埠
硬碟	8 x 3.5" 或 2.5" SATA 6Gb/s, SATA 3Gb/s 硬碟或 SSD 注意 : 1. 系統出貨不包含硬碟 2. 硬碟相容性列表請參考 www.qnap.com/compatibility
網路埠	2 x 10 Gigabit 網路埠 (10GBase-T) 4 x 1 Gigabit 網路埠
LED 指示燈	系統狀態燈、USB、網路埠、硬碟指示燈
USB 介面	USB 3.0 : 3 (前置 x1、後側x2) USB 2.0 : 2 (後側 x2)
HDMI 埠	1 (HDMI 1.4a)
按鍵	電源/狀態、USB 單鍵備份、系統重置按鈕
警報器	系統警報
機種	桌上型
尺寸 (HxWxD)	185.2 (高) x 298.2 (寬) x 235.4 (深) mm 7.29 (高) x 11.74 (寬) x 9.27 (深) inch
重量 (淨重/毛重)	7.83 kg / 8.9 kg
耗電量 (W) (含8顆 2TB 硬碟)	TVS-871T-i5-16G : 一般運行中 : 82.06 / 硬碟休眠模式 : 45.43 TVS-871T-i7-16G : 一般運行中 : 82.51 / 硬碟休眠模式 : 45.37
溫度	0 ~ 40°C、5~95% RH (不凝結)、濕球 : 27°C
電源	ATX 電源供應器 Input : 100~240V AC, 50/60Hz Output : 350W
風扇	2 x 靜音風扇 (12 cm, 12V DC)

* TVS-871T、TX-500P、TX-800P 出貨不含 Thunderbolt™ 2 傳輸線

型號	TX-500P	TX-800P
機種	桌上型	桌上型
Thunderbolt™ 2 傳輸埠	兩個Thunderbolt™ 2 高速傳輸埠 (最高可串接至6台)	
硬碟	5 x 3.5" 或 2.5" SATA 6Gb/s, SATA 3Gb/s 硬碟或 SSD 注意 : 1. 系統出貨不包含硬碟 2. 硬碟相容性列表請參考 www.qnap.com/compatibility	8 x 3.5" 或 2.5" SATA 6Gb/s, SATA 3Gb/s 硬碟或 SSD 注意 : 1. 系統出貨不包含硬碟 2. 硬碟相容性列表請參考 www.qnap.com/compatibility
LED 指示燈	系統狀態燈、風扇錯誤指示燈、系統過溫指示燈、Thunderbolt 埠指示燈	
尺寸	185.2 (高) x 210.6 (寬) x 235.4 (深) mm 7.29 (高) x 8.29 (寬) x 9.27 (深) inch	185.2 (高) x 298.2 (寬) x 235.4 (深) mm 7.29 (高) x 11.74 (寬) x 9.27 (深) inch
重量	淨重 : 5.1 kg (11.24 lbs) 毛重 : 6.5 kg (14.33 lbs)	淨重 : 7.3 kg (16.08 lbs) 毛重 : 8.6 kg (18.94 lbs)
溫度	5°C ~ 35°C (40°F ~ 95°F)	
電源	輸入 : 100~240V AC, 50/60Hz 輸出 : 250W	
風扇	靜音風扇 (12 cm, 12V DC) x 1	

選購配件

配件分類	型號	配件規格
線材	 CAB-TBT10M	1.0公尺 Thunderbolt™ 2 傳輸線
	CAB-TBT20M	2.0公尺 Thunderbolt™ 2 傳輸線

專為影音編輯者設計的高速 Thunderbolt™ 2 Turbo vNAS

TVS-871T

Thunderbolt™ 2 vNAS

整合 DAS、NAS、iSCSI SAN 三種應用

內建 10GbE 雙網路埠



2 種網路 專用分流

- ▶ Thunderbolt™ 2 網路
- ▶ 乙太網路

3 種模式 一機滿足

- ▶ DAS 文件分享模式
- ▶ NAS 模式
- ▶ iSCSI SAN 模式

4 種組合 快捷應用

- ▶ 高擴充性 (vNAS+JBOD+JBOD)
- ▶ 高應用性 (Mac+vNAS+JBOD)
- ▶ 高速共享 (Mac+2+vNAS)
- ▶ 彈性分流 (Mac+vNAS+vNAS+Mac)



QNAP
威聯通科技



將NAS變成實體PC



• 全球首台內建 Thunderbolt™ 2 超高速 20Gbps 傳輸協定並內建 Intel 10GbE 雙網路埠的 Turbo vNAS

• 獨家提供3種應用模式：DAS、NAS、iSCSI SAN

• 四種 Mac / PC 與 TVS-871T 組合情境涵蓋全面應用

• 分層分區儲存架構並支援 SSD 快取以提升儲存效能

• 全面支援 4K 影片播放及轉檔功能，提供絕佳的在線影音編輯儲存方案

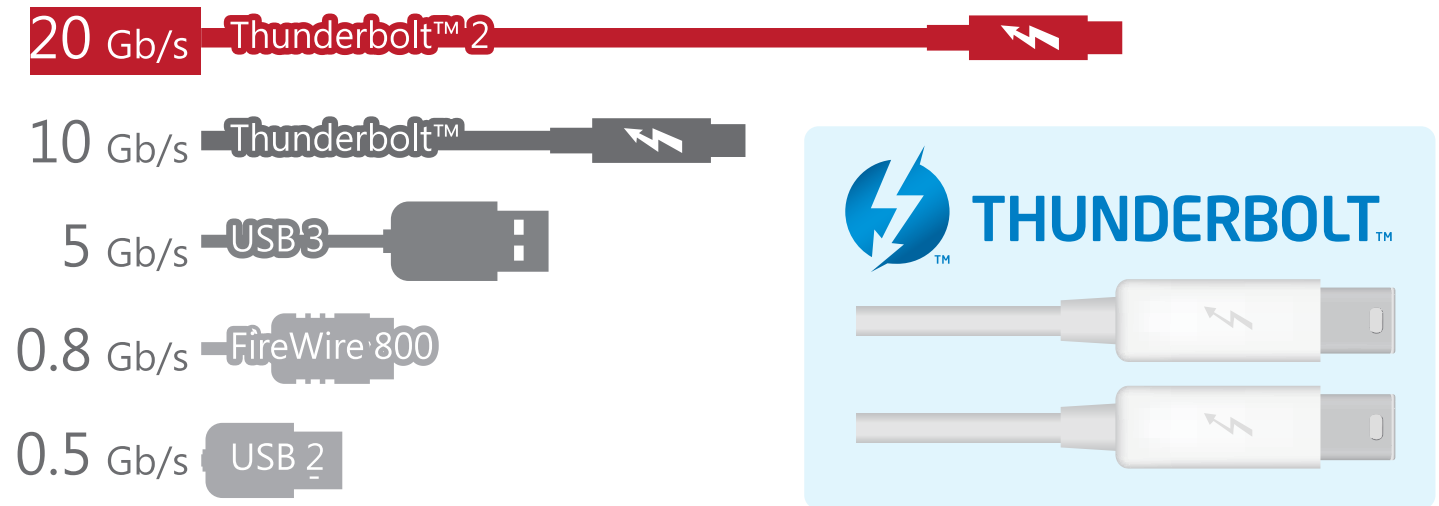
• 搭配 QNAP Thunderbolt™ 2 儲存擴充設備 TX-500P / TX-800P，最多可串連 6 台擴充至 448 TB 總原始儲存空間



■ 革命性Thunderbolt™ 2技術，再造I/O傳輸巔峰

Thunderbolt™ 2是Intel® 所研發最先進的高速傳輸技術。其前所未有的20Gbp超高速傳輸速率，超越第一代Thunderbolt 的頻寬有兩倍之多，更勝於USB 3.0的頻寬達4倍。

高速I/O傳輸效能表現線



■ Thunderbolt™ 2儲存擴充設備

QNAP TX-500P及TX-800P儲存擴充設備為最具經濟效益及簡易的儲存空間擴充方案，專為家庭及中小型企業設計的最輕省的擴充設備。TVS-871T可以串接最高六台TX-800P 和TX-500P，達到448 TB原始容量（Raw Capacity）。Thunderbolt™ 2滿足您對資料備份、多媒體檔案儲存及監控影像儲存的需求。

■ QNAP Thunderbolt™ 2儲存解決方案 全球第一最快傳輸速率Thunderbolt™ 2 vNAS

QNAP TVS-871T是全球第一款搭載第二代Thunderbolt™ 2技術，並且同時具備3種模式（DAS/NAS/iSCSI SAN）的儲存解決方案，完美呈現於一簡約的機構設計。TVS-871T不僅擁有Thunderbolt™ 2技術並內建雙10 Gigabit 乙太網路（10GbE），讓您有極佳的彈性在儲存應用上極限飆速。TVS-871T無疑地將是具Thunderbolt技術的Mac電腦及Windows PC的最佳拍檔，其強大威力無論對於4K 影音後製流程、檔案儲存和備份上更勝現今所有的解決方案。

■ 非QNAP Thunderbolt™ 2儲存不可？

2 種網路技術 專用分流

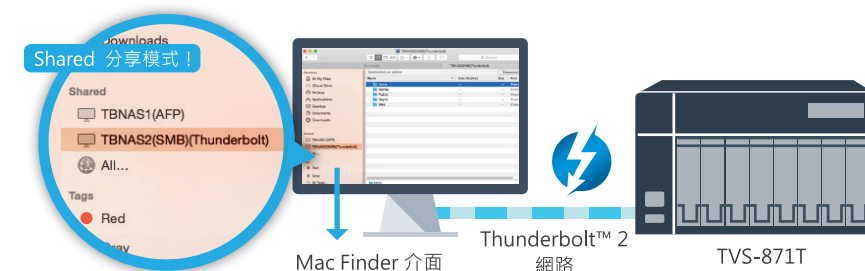
Thunderbolt™ 2協定使用業界標準的網通技術，因此透過高速的Thunderbolt™ 2傳輸線將能運行所有網路服務（例如：檔案分享、FTP及其他服務）。TVS-871T不僅能提供Thunderbolt™ 2網路傳輸還能同時提供乙太網路的相關服務，並保持這兩種網路傳輸各自獨立，頻寬完全不受干擾。



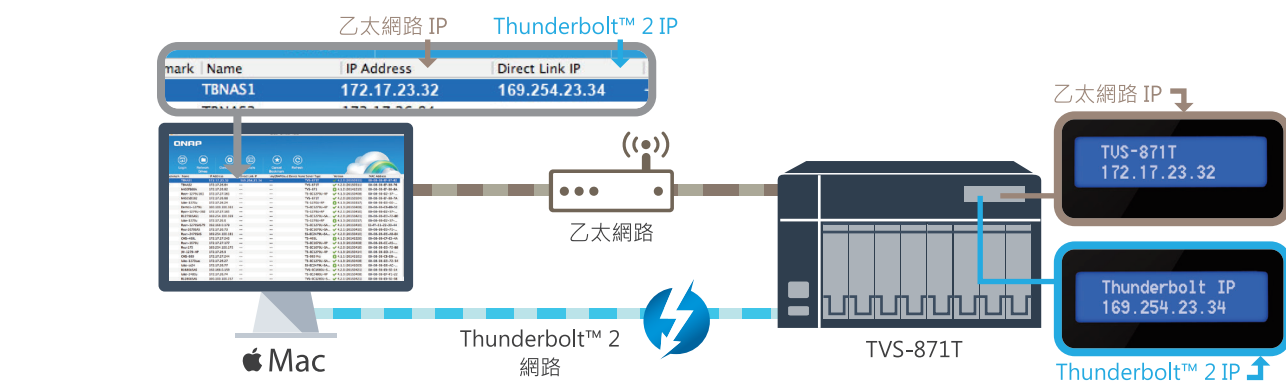
3 種儲存技術一機滿足

· Direct-attached storage (DAS) 直接連接儲存

在此模式下，您可以直接透過Thunderbolt™ 2超高速連接埠連接NAS到您的PC或是Mac來存取您的分享資料夾。



· Network-attached storage (vNAS) 網路附加儲存 輕鬆擁有跨平台高畫質影音檔案分享及完整備份之儲存系統。



· iSCSI SAN儲存區域網路

原生支援iSCSI-SAN連線，利於建構高性能的儲存資源分享。



功能比一比 有了Thunderbolt，你將可把所有Apple的產品（如：MacBook Pro, MacBook Air, iMac Retina 5K）與TVS-871T相連接，把它們接續互通，你所能成就的就能多更多。

	勝	TVS-871T	其他 Thunderbolt™ JBOD
DAS	透過Thunderbolt™ 傳輸線直接存取資料	文件分享式直接附加儲存 (File-based DAS)	區塊式直接附加儲存裝置 (Block-based DAS)
	2台Mac或電腦可直接連線至TVS-871T並分享檔案	可	否
	Mac / Windows / Linux跨	可	否
NAS	即時協同作業	可	否
	Mac / Windows / Linux 跨平台分享	可	否
	Web、資料庫、LDAP、VPN	可	否
	多媒體服務	可	否
iSCSI SAN	高速區塊式直接附加儲存	可	否

4 種組合 快捷應用

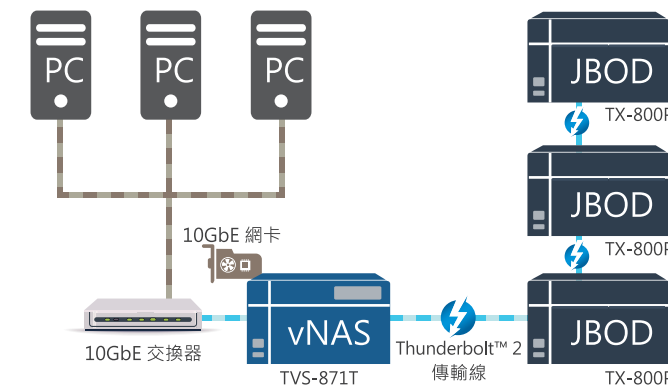
① 高擴充性（vNAS+JBOD+JBOD）

應用情境

企業透過乙太網路共享大量資料

優點

- 10GbE網路 頻寬海量
- Thunderbolt™ 2 JBOD擴充 空間海量



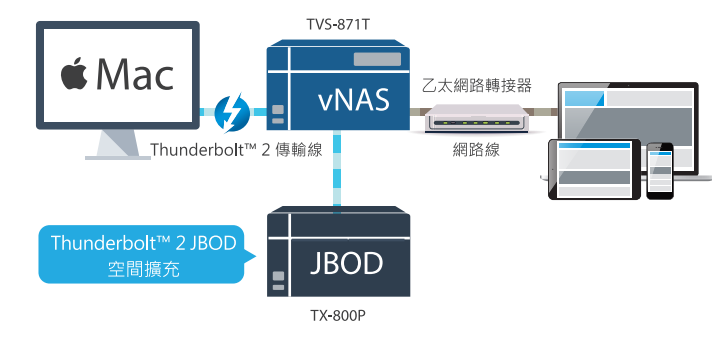
② 高應用性（Mac+vNAS+JBOD）

應用情境

Mac 用戶需要分享資料

優點

- Mac用戶的最高C/P值高速儲存方案
- 超高速傳輸，跨平台共享
- Thunderbolt™ 2 JBOD海量擴充空間



③ 高速共享（2* Mac+vNAS）

應用情境

兩台Mac或PC 影音工作站協同作業

優點

- 兩台Mac或PC 到NAS享有高速傳輸

* 支援主流影片編輯軟體如Final Cut Pro X, Adobe Premiere Pro, PowerDirector等。



④ 彈性分流（Mac+vNAS+vNAS+Mac）

應用情境

大型 Mac 影音工作與跨平台協同作業

優點

- 兩台Mac到NAS享有專屬高速Thunderbolt網路
- TVS-871T串接擴充彈性擴充空間（最高可六台串接）

