ComX Computers
Product Specification Sheet

TS-832X-2G

QNAP TS-832X 8-Bay Quad-Core AL324 1.7Ghz Network Attached Drive

Product Overview

QNAP TS-832X 8-Bay, Quad-Core AL324 64-Bit 1.7Ghz, 2GB DDR3 RAM (Expandable up to 16GB), 512MB Flash memory,2 x Gigabit, 3x USB 3.0,PCIe Slots, 96.0TB Max, QuickAccess port for direct access to files



Specifications

Overview:

The powerful 8-bay, quad-core TS-832X includes two 10GbE SFP+ ports to fully support 10GbE high-speed networks at a budget price with maximized ROI. It is also an ARM-based NAS that supports Qtier™ technology for efficient auto-tiered storage. The PCIe slots extend greater application potential, for example, by installing QNAP's new PCIe wireless network card QWA-AC2600 the TS-832X is transformed into a convenient wireless base station that allows devices to directly connect to the NAS for easy access to its services and Internet connection.

Features:

Quad-core CPU and dual 10GbE SFP+ ports
The TS-832X is equipped with an AnnapurnaLabs, an Amazon company Alpine AL-324 quad-core 1.7 GHz Cortex-A57 processor with 2GB/8GB DDR4 RAM (upgradable to 16GB) and supports SATA 6Gb/s. When processing AES 256-bit full NAS volume encryption, the TS-832X also provides unmatched encryption performance while ensuring the safety of sensitive business data stored in the NAS. The TS-832X comes with two 10GbE SFP+ ports to fully support 10GbE high-speed networks, delivering a major speed increase for virtualization tasks, fast backup & restoration, and large-data applications.

Extend NAS functionality with two PCIe slots
The TS-832X features two PCIe slots (1 x PCIe Gen2 x1, 1 x PCIe Gen2 x2) that allow for installing various expansion cards for greater application potential.

10GbE adapters
Support lightning-fast throughput for bandwidth-demanding tasks such as fast backup/restoration for an ever-growing amount of data and virtualization.

QM2 M.2 SSD/10GbE PCIe cards
Add M.2 SSD caching or 10GbE (10GBASE-T) connectivity to the NAS to enjoy optimal performance.

USB 3.1 Gen 2 (10Gbps) cards
USB 3.1 provides faster maximum speeds of 10Gb/s - double that of USB 3.0 - to greatly boost data transfer performance, allowing compatibility with newer, faster USB devices for transferring large-sized media files.

Wireless network cards
Use WirelessAP Station along with a PCIe wireless network card (for example: QNAP QWA-AC2600) to transform the NAS into a convenient wireless base station, allowing network resources of the NAS to be shared with multiple devices.

SSD caching and auto tiering enable optimized storage efficiency
The TS-832X supports SSD caching to improve the workflow of random IOPS demanding applications. Qtier™ Technology empowers the TS-832X with automatic tiering that continuously optimizes storage utilization across high-performance SSD and high-capacity SATA drives. The new Qtier™ 2.0 features IO-awareness that empowers SSD-tiered storage with a cache-like reserved space to handle burst I/O in real time, greatly maximizing the advantages of SSD.

Snapshots - a modern way to protect data
Essential for NAS data protection, snapshots help protect your data by fully recording the NAS system state and the metadata. You can use the Storage & Snapshots Manager or File Station to easily manage snapshots and quickly restore the system to its normal state if an error occurs. QNAP snapshots are block-based and only record the changed data. Not only does this save storage space but also reduces the time required to back up and restore data.

Upgrade your IT environment with QNAP's fast and affordable 10GbE Switch!
QNAP 10GbE/NBASE-T™ unmanaged switches allow you to instantly upgrade your network environment at a cost-effective price. With a 10GbE network you can enjoy blazing-fast transfer speeds, empower bandwidth-demanding tasks like virtualization, and enable simultaneous real-time access to large NAS-based files using multiple workstations (ideal for video editing and multimedia). QNAP also provides a 10GbE PCIe network expansion card for Windows®/Linux® PCs to take advantage of high-speed LAN environments.

Host container applications
Container Station integrates LXC and Docker® lightweight virtualization technologies. You can download apps from the built-in Docker Hub® to easily import/export container apps and manage access controls, enjoying the benefit of easy installation, transferability and high-efficiency as well as rapidly deploying application services across several platforms including the cloud, servers, and PCs.

QTS - The intelligent, intuitive and creative NAS operating system
With multiple modularized applications and functions, QTS enhances management efficiency, personal productivity, multimedia, and much more, making your NAS experience easier, efficient, and more flexible! The built-in App Center with hundreds of install-on-demand apps also opens up vast potential for extensive NAS functionality. The new Qboost provides a NAS optimization tool that helps accelerate applications, free up system resources, and schedule applications. QTS breaks the barriers of devices, platforms, and geography to bring you advanced features and optimized cloud experiences.

Optimized collaboration with seamless file sharing and sync
The TS-832X centrally stores data and files, and supports SMB/CIFS, AFP and NFS protocols for file sharing across Windows®, Mac®, and Linux®/UNIX® networks. Coupled with Qsync (a utility that turns a QNAP NAS into a safe, high-capacity data center for file synchronization) any file uploaded to the TS-832X will be made available for all linked devices, such as computers, laptops and mobile devices. You can sync shared folders and team folders for group file sharing to enhance the flexibility of team projects and collaboration. Files can be centrally managed using File Station, including files from mobile devices and optical disc drives. File Station also allows you to mount a remote NAS, and transfer files between your NAS and public cloud services for greater convenience.

Complete backup planning
The TS-832X provides a reliable, flexible backup & disaster recovery solution to assist organizations in routine backup jobs with cost-efficiency and high productivity.

Snapshots for Volume & LUN
Block-based snapshots are a dependable method for protecting data in the face of the growing threat of ransomware. Snapshots can be taken by schedule or manually and then backed up to other NAS/servers to provide an all-encompassing backup solution.

Windows and Mac backup
Use the free QNAP NetBak Replicator utility to back up/restore files from Windows® computers. Time Machine® is also supported for Mac® users. It is easy, fast and convenient.

Hybrid Backup Sync
Consolidates backup, restoration and synchronization functions (using RTRR, rsync, FTP, CIFS/SMB) for easily transferring data to local, remote and cloud storage spaces as a comprehensive data storage and disaster recovery plan.

Whole new QVR Pro surveillance solution
QNAP's new QVR Pro surveillance solution allows you to arrange a dedicated, independent storage space for surveillance data on the TS-832X and leverage the advantages of storage manageability from QTS. With QVR Pro, camera management, storage space allocation, camera live view and playback is greatly simplified. You can also use the QVR Pro Client mobile app to monitor your cameras from anywhere, or use USB webcams as ONVIF network camera with the QUSBCam2 app.

Flexible and economical storage expansion
You need an easy solution to increase storage capacity when running out of space. QNAP provides several ways to expand your NAS storage as needed to accommodate data and business growth.

Upgrade RAID Capacity
Hot swap lower-capacity drives with larger-capacity drives so that your QNAP NAS can grow with your business.

Migrate to a New NAS
Install your NAS hard drives into a larger QNAP NAS and retain all your existing data and configurations.

Attach Expansion Enclosures
Connect two UX-800P or UX-500P expansion enclosures and use the Storage & Snapshots Manager to easily handle NAS capacity expansion.

Expand storage capacity of other QNAP NAS with Virtual JBOD
QNAP VJBOD (Virtual JBOD) is network-based JBOD, allowing you to expand the storage capacity of your QNAP NAS with unused storage space from other QNAP NAS. The unused storage capacity of the TS-832X can be mounted as local disks in other NAS, and you can create virtual storage pools and volumes for operating NAS services to maximize storage utilization.

Qfiling
Automates file organization. Files are well-organized and archived based on your settings.

Qsirch
A powerful full-text search engine to quickly and precisely find media files, documents, and emails.

QmailAgent
Centrally manage and switch between different email accounts, back up emails to the NAS, and safeguard email security and personal privacy.

IFTTT Agent
A popular web automation service for combining QNAP NAS and mobile devices/apps to customize NAS applets.

Browser Station

Enable remote access through NAS-hosted web browsers to access local LAN resources without needing complex VPN settings.

QIoT Suite Lite
Combines the security and large capacity potential of QNAP NAS while providing an IoT solution on a private cloud. It only takes three steps to quickly deploy your own IoT application.

Specifications:

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Specifications	
Product Code	TS-832X-2G
Hardware Details	
CPU	AnnapurnaLabs, an Amazon company Alpine AL-324 Quad-core 1.7GHz ARM Cortex-A57 Processor, 64-bit
Encryption Acceleration	Yes
System Memory	2GB DDR4 2400 (1 x 2 GB)
Maximum Memory	16 GB (1 x 16 GB)
Memory Slot	1 x SODIMM slot
Flash Memory	512 MB NAND Flash
Drive Bay	Hot-swappable 8 x 3.5"/2.5" SATA 6Gb/s HDD or SSD
10 Gigabit Ethernet Port	2 x 10GbE SFP+
Gigabit Ethernet Port	2 x Gigabit RJ45
USB Port	3 x USB 3.0 (Front: 1; Rear: 2)
PCIe Slot	Slot 1: Gen2 x1 (for Wi-fi AIC)
	Slot 2: Gen2 x2
Audio	1 x Built-in speaker, 1 x 3.5mm line out jack
	Note: You cannot use the speakers and the line-out jack simultaneously.
LED Indicators	Status/Power, LAN, USB, HDD 1-8
Buttons	Power, Reset, USB One- touch-copy
System Warning	Buzzer
Form Factor	Tower
Dimensions (H x W x D)	188.2 x 329.3 x 279.6 mm
	7.41 x 12.96 x 11.01 inch
Weight	Net weight: 6.52 kg (14.37 lbs)
Power Consumption (W)	HDD standby: 24.53 W
	In operation: 49.43 W
	(with 8 x 2TB HDDs installed)

Sound Level	20.7 dBA
Fan	System: 2 x 12 cm smart fan (12V DC)
	CPU: 1 x 6 cm fan
Power Supply Unit	250W, 100-240V AC, 50/60Hz, 3.5A
Operating Temperature & Relative Humidity	0 ~ 40 degreesC (32 degreesF ~ 104 degreesF), 5 ~ 95% RH non-condensing, wet bulb: 27 degreesC (80.6 degreesF)
Security Slot	Kensington security slot
Software Details	
Operating System	QTS 4.3.4 (embedded Linux)
Supported Client Operating Systems	1. Apple Mac OS 10.7 or later
	2. Linux and UNIX
	3. Microsoft Windows 7, 8, and 10
	4. Microsoft Windows Server 2003, 2008 R2, 2012, 2012 R2 and 2016
Supported Browsers	1. Apple Safari 7 or later
	2. Google Chrome
	3. Microsoft Internet Explorer 10 or later
	4. Mozilla Firefox
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	1. Internal Hard Drive: EXT4
	2. External Hard Drive: EXT3, EXT4, NTFS, FAT32, HFS+
Networking	1. TCP/IP (IPv4 & IPv6: Dual Stack)
	2. Service binding based on network interfaces
	3. Squid Proxy server
	4. Proxy client
	5. DHCP client, DHCP server
	6. Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC
	7. UPnP & Bonjour Discovery
	8. USB Wi-Fi Adapter Support

Storage Management	1. Storage space utilization monitoring
	2. Flexible volumes and LUNs with thin provisioning and space reclaiming
	3. Disk volume types
	RAID 0/1/5/6/10/50/60, + hot spare, single, JBOD
	RAID hot spare and global hot spare
	RAID rebuild speed customization
	Advanced secure data erase
	4. Storage pools
	5. Qtier Technology (automated storage tiering)
	6. Snapshots
	Volume and LUN snapshots
	Snapshot Dashboard
	Snapshot Manager
	Snapshot Cloning
	Snapshot Vault
	Snapshot Replica
	Unify Snapshot Directory
	Support for Windows previous versions (CIFS/SMB)
	Snapshot Agent for Microsoft Windows and VMware vSphere
	2GB SKU : Max. 32 snapshots per volume/block-based LUN; max. 64 per NAS
	8GB SKU : Max. 64 snapshots per volume/block-based LUN; max. 256 per NAS
	7. Online volume expansion
	8. Online storage pool expansion
	9. Online RAID capacity expansion and online RAID level migration
	10. SMART data migration
	11. Bad block scan and hard drive S.M.A.R.T.
	12. Bad block recovery and RAID recovery
	13. Bitmap support
Power Management	1. Wake on LAN
	2. Internal hard drive standby mode
	3. Scheduled power on/off
	4. Automatic power on after power recovery
	5. USB and network UPS support with SNMP Management

Qsync	1. File syncing across multiple devices with SSL secure connection
	2. Selective synchronization for specific folders or subfolders
	3. Team folders as file center for better collaboration
	Note: The maximum number of sync tasks is 32 for x86 devices and 5 for ARM devices.
	4. File sharing through email links
	5. Policy settings for conflicting files and file type filter
	6. Version control for a maximum of 64 versions
	7. Unified privilege and configuration management
	8. Central configuration mode
	9. Remote erase and restore
	10. Windows and Mac OS support
Access Right Management	1. Batch users creation
	2. Import/Export users
	3. User quota management
	4. Local user access control for CIFS, AFP, FTP, and WebDAV
	5. Application access control for Photo Station, Music Station, Video Station, and File Station
	6. Subfolder permissions support for CIFS/SMB, AFP, FTP, and File Station
Web Administration	1. Multi-window, multi-tasking system management
	2. Smart toolbar and dashboard for system status display
	3. Dynamic DNS (DDNS)
	4. SNMP versions 2 and 3
	5. Resource monitor
	6. Network recycle bin for file deletion (AFP, CIFS/SMB, and File Station)
	7. Automatic cleanup
	8. File type filter
	Comprehensive logs (events & connection)
	Syslog server and client
	Backup and restoration of system settings
	Qmanager: Mobile application for remote system monitoring and management
	9. Qboost

Security	1. Network access protection with auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP
	2. CIFS host access control for shared folders
	3. FIPS 140-2 validated AES 256-bit volume-based and shared folder data encryption
	4. AES 256-bit external drive encryption
	5. Importable SSL certificates
	6. Instant alert via E-mail, SMS, beep, and push service
	7. 2-step verification
	Note: Data encryption functions may be unavailable in accordance with the legislative restrictions of some countries.
Domain Authentication Integration	1. Microsoft Active Directory (AD) & Domain Controller support
	2. LDAP server, LDAP client
	3. Domain users login via CIFS/SMB, AFP, FTP, and File Station
Resource Monitor	1. Monitor NAS system resources including CPU, memory and network.
	2. Monitor NAS storage resources including volumes, RAID, and disk activity.
	3. Monitor the resource usage of NAS applications.
iSCSI (IP SAN)	1. iSCSI target with multi-LUNs per target (Up to 256 targets/LUNs combined)
	2. Supports LUN mapping & masking
	3. Online LUN capacity expansion
	4. Support for SPC-3 persistent reservation
	5. Supports MPIO & MC/S
	6. iSCSI LUN backup, one-time snapshot, and restoration
	7. iSCSI connection and management by QNAP Windows Qfinder Pro
	8. Virtual disk drive (via iSCSI initiator)
	9. Max No. of virtual disk drives: 8
Storage Plug & Connect	1. Creating and mapping shared folders by QNAP Windows Qfinder Pro
	2. Creation of and connection to iSCSI target/LUN
myQNAPcloud Service	1. Private cloud storage and sharing
	2. Free host name registration (DDNS)
	3. Supports myQNAPcloud SSL certificates (DDNS)
	4. Auto router configuration (via UPnP)
	5. Web-based file manager with HTTPS 2048-bit encryption
	6. CloudLink for remote access without any complicated router setup
	7. myQNAPcloud connect for easy VPN connection (Windows VPN utility)
Helpdesk	1. Report issues to the QNAP support team, with automatically-collected system information.
	2. Allows QNAP support engineers to remotely connect to the NAS to fix issues (with user permission).

File Server	1. File sharing across Windows, Mac, and Linux/UNIX
	2. Windows ACL
	3. Advanced folder permissions for CIFS/SMB, AFP, FTP
	4. Shared folder aggregation (CIFS/SMB) monitoring & management
FTP Server	1. FTP over SSL/TLS (Explicit)
	2. FXP support
	3. Passive ftp port range control
Hybrid Backup Sync	1. Cloud storage backup to Amazon S3, Amazon Glacier, Microsoft Azure, Google Cloud Storage, Openstack Swift, WebDAV, and HKBN
	2. Cloud storage syncing with Microsoft OneDrive, Google Drive, Dropbox, Amazon Drive, Yandex Disk, Box, hubiC, BackBlaze B2, Amazon S3, and HiDrive
	3. RTRR server & client with bandwidth control
	4. Rsync server with download bandwidth control
	5. Remote server syncing (CIFS/SMB, FTP, Rsync, and RTRR)
	6. Scheduled backup to local and remote storage spaces
	7. Backup versioning (RTRR)
	8. Encryption, compression, and file filters
	9. Centralized management for backup, restoration, and sync jobs
	10. Support for Apple Time Machine
	11. Data backup to multiple external storage devices
	12. Desktop backup with QNAP NetBak Replicator for Windows
	13. Support for third-party backup software such as Veeam Backup & Replication, Acronis True Image, Arcserve Backup, Retrospect, Nakivo and Backup Exec
Qcontactz	1. One-way scheduled sync of contacts from multiple Google accounts
	2. Import contacts from file: CSV or vCard 3.0
	3. Export contacts into a file: CSV and vCard 3.0
	4. Find duplicate contacts and merge them
	5. Snapshot management for your contacts database
	6. Manage contacts: Groups, favorite, lock, search, delete & restore
	7. Supported for mobile: Android and iPhone
Notes Station 3	1. Multi-user text editing using the collaborative editor
	2. Table creation using the spreadsheet editor
	3. Online quick preview of multimedia attachments
	4. Smart snapshot for version control

QVR Pro	1. Support for over 5,000 IP cameras
	2. 8 free camera licenses
	Note: The application supports a maximum of 16 camera channels. You can purchase additional licenses on the QNAP website.
	3. Instant playback for checking of recent events
	4. Visual aid using e-map
	5. Video preview on playback timeline
	6. Surveillance client for Mac
	7. Vmobile: Mobile surveillance application for iOS and Android
	8. Vcam: Mobile recording application for iOS and Android
Surveillance Station	1. Supports over 3,000 IP cameras
	2. Includes 2 free camera licenses, up to 24 camera channels via additional license purchase
	3. Instant playback to check recent events
	4. Online editing to edit cameras during live view
	5. Visual aid by e-map
	6. Playback and speed control using the shuttle bar
	7. Video preview on playback timeline
	8. Intelligent video analytics (IVA) for advanced video searching
	9. Surveillance client for Mac
	10. Mobile surveillance app: Vmobile (iOS and Android)
	11. Mobile recording app: Vcam (iOS and Android)
File Station	1. Supports mounting cloud drives (such as Google Drive, Dropbox, Microsoft OneDrive, Microsoft OneDrive for Business, HiDrive, Amazon Cloud Drive, Yandex Disk and Box).
	2. Supports mounting remote shared folders through FTP, WebDAV or Microsoft networking (SMB/CIFS)
	3. Supports opening documents via Office Online, Google Docs or Chrome Extension (Edit Office files in Google Docs, Sheets, and Slides)
	4. Supports ISO Mounting (Up to 256 ISO Files)
	5. Supports sharing download links and upload links
	6. Drag-n-drop Files via Chrome and Firefox Browsers
	7. Photo, music, and video preview and playback
	8. File Compression (ZIP or 7z)
	9. Creation of and sending download links for sharing public files with expiration date and password protection
	10. Supports displaying subtitles (*.SRT, UTF-8 format)
	11. Supports slideshow playback in media viewer
	12. Mobile App: Qfile for file browsing and management

Qfiling	1. Auto filing
	2. Recipe function
	3. Archiving through iSCSI, USB, DVD and remote NAS
	4. Advanced settings
	5. File deletion
	6. Intelligent subtitle filing for videos
	7. Data integrity check
	8. File conflict policy
Qsirch	1. Full-text search
	2. Data distribution using a bar chart
	3. Previews for photos, music, videos, PDFs, Gmail, and others
	4. Advanced search operators and search scope
	5. Customized search filters (included or excluded conditions)
	6. Related files suggestion in Viewer
	7. Customized search filters
	8. Search Chrome extension
Container Station	1. Supports LXC and Docker
	2. Supports CPU/Memory management
	3. Download applications from the built-in Docker Hub Registry
	4. Supports one-click installation, container export/import & console mode
	5. Supports mounting NAS shared folders and data-only containers
	6. Supports auto port forwarding
	7. Supports auto-start containers
	8. Supports downloading Docker certificates
QVPN Service (Integrated VPN Server, VPN Client and L2TP/IPSec VPN Services)	1. VPN Server: Secure remote access with PPTP, L2TP/IPSec & OpenVPN VPN services
	2. VPN Server: Up to 100 clients.
	3. VPN Server: Supports domain users as VPN users.
	4. VPN Client: Supports PPTP, L2TP/IPSec & OpenVPN VPN protocols.
	5. VPN Client: Supports importing .ovpn files to create OpenVPN connection.
AirPlay & Chromecast	Streams videos, photos and music from NAS to Apple TV or Chromecast via File Station, Music Station, Photo Station, Video Station or mobile app (Qfile, Qmusic, Qphoto or Qvideo).
	Note: Media Streaming add-on app from the App Center is required

Photo Station	1. Photo organization by thumbnail, list, timeline, or folder
	2. Virtual and smart albums
	3. Validity control for album sharing
	4. Photo tagging with text, colors, and ratings
	5. Slideshows with background music and different transition effects
	6. Photo geotagging and display on Google Maps
	7. Photo and video uploading to Picasa, Flickr, and Weibo
	8. Album configuration back up and restoration
	9. Advanced folder permissions
	10. Support for domain users
	11. Qphoto: Mobile application for online browsing and sharing
Video Station	1. Show photos by thumbnails, list, timeline, or folder view
	2. Supports virtual/smart collections
	3. Tag videos with text, color, and ratings
	4. Share video links to social websites or through email
	5. Display movie information and posters from Internet sources or user-uploaded files
	6. Supports displaying subtitles (*.SRT, *.ASS, *.SSA)
	7. Supports online searching and downloading of subtitles as well as importing subtitle files
	8. Supports adjusting the display style of subtitles
	9. Supports for playback speed adjustment
	10. Support for direct streaming videos in certain file formats
	11. Supports Facebook friends login
	12. Supports advanced folder permission settings.
	13. Supports LDAP users.
	14. Videos can be uploaded to YouTube and Youku.
	15. Supports multi-zone video display
	16. Mobile app: Qvideo for online video browsing and management
iTunes Server	Audio and video sharing for Windows & Mac iTunes
DLNA Server	1. Supports DLNA/UPnP TVs and players such as PlayStation 4 and Xbox One
	2. Supported audio formats: AIFF, APE, DSD (DSF, DFF), FLAC, M4A, M4A Apple Lossless (ALAC), MP3, OggVorbis, WAV (PCM, LPCM), WMA, WMA PRO, WMA VBR
	3. Support CUE indexing file for APE, FLAC audio format.
	Note: DRM-protected content is not supported.

Download Station	1. PC-less downloads (BitTorrent, FlashGet, FTP/FTPS, HTTP/HTTPS, QQDL, and Thunder)
	Note: The application supports a maximum of 500 tasks. The maximum number of concurrent downloads is 30 (10 BT/PT, 10 HTTP, 10 FTP)
	2. BitTorrent: Support for search, magnet links, private trackers, and proxy
	3. Scheduled download and bandwidth control
	4. RSS subscription and download (broadcatching)
	5. Support for add-ons that extend download functionality
	6. Qget: Mobile application for download browsing and management
Print Server	1. SMax number of printers: 3
	2. Supports Internet Printing Protocol
	3. Print job display and management
	4. IP-based and domain name-based privilege control
App Center	Official and community software add-ons such as Signage Station and Notes Station

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TS-832X-2G-QNAP-TS-832X-8-Bay-Quad-Core-AL324-1-7Ghz-Network-Attached-Drive-p-204716.php

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