

# Data Sheet

## FUJITSU CELVIN® NAS Q802 Storage

### Powerful 4-Drive NAS

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The Fujitsu CELVIN® NAS Server Q802 is the ideal product for file sharing, end to end backup options and SAN (Storage Area Network) integration for SMB customers - enabling centralized data management at a reasonable price. It is a balanced multipurpose device with up to 16 TB storage and can be set up for anything from surveillance operations to NAS plus iSCSI storage.

#### Business Server Feature

- 4 hot swappable drives
- Integrated backup server with diverse replication modes
- VMWare®/Citrix®/HyperV™ Capable
- Enabling private cloud

#### Reliability

- Service-friendly cabinet
- 3-years spare part supply
- Country-specific warranty
- Top-up services are available



# CELVIN® NAS Q802

## Technical specifications

	Firmware based on 4.1.1 Processor: Intel® Atom™ D2700 2,13GHz Memory: 1 GB DDRIII RAM, one free slot 512 MB Flash on DOM FAN: 1x quiet cooling fan (9cm) Intel® 82574L NIC x2 Gigabit LAN Formfactor: Tower
<b>Hard disk capacity</b>	Up to 4 x 2.5-inch or 3.5-inch SATA I/II/SATA 6Gb/s HDD or SSD up to 16TB raw capacity, consult HDD compatibility list
<b>LED</b>	USB Status HDD 1 -4 LAN Power
<b>System controls</b>	Power button, One-touch copy button, Alarm Buzzer (System Warning), Reset Button, Display mode button
<b>Color</b>	Black housing, copper colored trays

## Interfaces

<b>USB 2.0 total</b>	Front side: x1 ; rear side: x4
<b>USB 3.0 total</b>	Rear side: x2
<b>eSATA</b>	Rear side: x2
<b>HDMI</b>	Rear side: x1 (not enabled)
<b>VGA</b>	Rear side: x1 (maintainance only)
<b>LAN / Ethernet</b>	Rear side: x2 Gigabit RJ-45 Ethernet port (always on)

## Software specification

<b>Networking</b>	TCP/IP (IPv4 /IPv6 dual stack), multi IP setting, LACP, Port trunking /NIC teaming: Balance-rr (Round-Robin), Active Backup, Balance XOR, Broadcast, IEEE 802.3ad, Balance-tlb (Adaptive, Transmit Load Balancing), Balance-alb (Adaptive Load Balancing) DHCP client, DHCP server including PXE boot CIFS/SMB(1.0,2.0,2.1,3.0 selectable), AFP/Netatalk3.2, NFS v3, HTTP, HTTPS, FTP,SFTP(admin), DDNS, NTP, Telnet, SSH, iSCSI, SNMP, WebDAV, SWS Dual Gigabit w/ Jumbo Frame, Bonjour  iSCSI target (with multi-LUNs per target), Up to 256 LUNs/targets combined iSCSI LUN online expansion LUN mapping / LUN masking Online LUN capacity expansion SCSI Primary Commands -3 (SPC-3) support / persistent reservation MCS (multiple TCP connections / session) support to reach iSCSI target MPIO (multipath input output) for load balancing and failover iSCSI LUN Backup, One-time-Snapshot and Restore iSCSI initiator for virtual disks (max 8 disks); stack chaining master Virtual disk support for EXT3/ EXT4/ NTFS/ FAT32/ HFS+ iSCSI Connection and Management by Fujitsu Finder (Windows)  Support for VMware VSphere 4 and 5 via NFS and iSCSI Windows Server 2008 support (Hyper-V & failover clustering) Citrix XenServer (6.0)  VLAN 802.1Q USB WiFi-Adapter support IEEE 802.11b/g/n/ac WEP, WPA-personal (AES/TKIP), WPA2-personal (AES) Connection to wireless network or Ad Hoc network
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**Software specification**

<b>Backup Management</b>	<ul style="list-style-type: none"> <li>Client backup software</li> <li>Time machine backup (OS X Lion support)</li> <li>3rd party backup software support</li> <li>Encrypted block-level remote replication (instant, scheduled backup management); synchronization mode/Rsync</li> <li>Real-time remote replication (RTRR protocol) for real-time backup of server &amp; client, 3 sync modes, filter, policy definition, SSL protected</li> <li>Backup to Cloud</li> <li>Backup to (encryptable) USB/eSATA storage devices</li> <li>LUN backup and restore</li> <li>LUN point-in-time snapshot (1x)</li> </ul>
<b>File System Management</b>	<ul style="list-style-type: none"> <li>Network share management (max. 512 shares)</li> <li>Share folder level ACL support</li> <li>Unicode support</li> <li>Journaling file system</li> <li>Web File Manager <ul style="list-style-type: none"> <li>File management by Web-browser</li> <li>File and folder search</li> <li>Direct file viewing via Google Docs support (pdf,tif/tiff,ppt,doc,xls,pptx,docx,xlsx,svg,odt)</li> <li>Create and send download links for public file sharing (time expiration, password protected)</li> </ul> </li> </ul>
<b>Disk Management</b>	<ul style="list-style-type: none"> <li>Disk usage status management; HDD S.M.A.R.T.; Bad blocks scan</li> <li>RAID 0/1/5/5+HS/10/6, JBOD, single disk</li> <li>Online RAID capacity expansion; online RAID-level migration</li> <li>RAID recovery, Bitmap support</li> <li>ISO mounting (max 256) via Web File Manager</li> </ul>
<b>User Management</b>	<ul style="list-style-type: none"> <li>User quota management</li> <li>Windows Active Directory support, max. 10k users</li> <li>LDAP directory service supports Open LDAP, max. 10k domain users</li> <li>User account management (max. 4096users)</li> <li>User group management (max. 512 groups)</li> <li>Shared folders (max. 512)</li> <li>Concurrent connections (max. 256)</li> <li>Support batch creating users</li> <li>User Import/ Export for Multiple CELVIN NAS Deployment</li> <li>Subfolder Permission (File/Directory ACL)</li> <li>Microsoft Networking (Samba) Host Access Control (Domain/IP)</li> </ul>
<b>RADIUS Server</b>	<ul style="list-style-type: none"> <li>Support for 802.1x security authentication: PAP , EAP-TLS/PAP, EAP-TTLS/PAP (WPA-Enterprise, WPA2-Enterprise)</li> <li>max. 10 RADIUS clients, max. 4096 users</li> </ul>
<b>VPN Server</b>	<ul style="list-style-type: none"> <li>OpenVPN up to 256bit SSL/TLS, PPTP up to 128bit encryption</li> </ul>
<b>System Tools</b>	<ul style="list-style-type: none"> <li>E-mail alert (SMTP authentication); SMS alert notification</li> <li>Disk usage alert</li> <li>HDD standby mode</li> <li>Automatic power on after power loss</li> <li>Schedule power on/ off (15 settings max)</li> <li>System firmware upgrade</li> <li>Wake-on-LAN</li> <li>Smart fan setting</li> <li>Back up, restore, reset system settings</li> <li>Configurable management port</li> <li>Remote login by Telnet connection</li> <li>USB, SNMP(v2, v3) UPS support</li> <li>Network recycle bin</li> </ul>
<b>Event Logs</b>	<ul style="list-style-type: none"> <li>Complete system logs (file level): system events management, connection logs, current connection of on-line users</li> <li>Centralized monitoring / syslog server (TCP / UDP)</li> <li>Manually and advanced log filtering via wizard</li> </ul>
<b>Multilingual (Online) Support</b>	<ul style="list-style-type: none"> <li>English, German, Czech, Danish, Spanish, French, Italian, Norwegian, Polish, Russian, Finish, Swedish, Dutch, Turkish, Greek, Hungarian, Portuguese (Brazil), Romanian, Japanese, Korean, Thai, Chinese (Traditional &amp; Simplified)</li> </ul>

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**Software specification**

<b>FTP Server</b>	<p>FTP remote access (max. 256 concurrent connections)          FTP with SSL/ TLS (explicit) mode          FTP bandwidth control and connection control          Passive FTP port range control          FXP and Unicode support          TFTP server (PXE boot)          SFTP (admin only)</p>
<b>Printer Server</b>	<p>USB printer network sharing (Windows / Mac)          Internet printing protocol, printer management, Apple Bonjour printing</p>
<b>Web Server</b>	<p>Built-in editable php.ini, SQLite and MySQL          Web-based management via phpMyAdmin          Max. 32 virtual hosts</p>
<b>MySQL Server</b>	<p>MySQL database server</p>
<b>Security</b>	<p>Network access protection with autoblocking (SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP)          Policy based automatic IP blocking and IP filter          Encrypted access (HTTPS, FTP with SSL/TLS(explicit),SSH/SFTP, RSync over SSH,          CIFS host access control for shared folders          ClamAV antivirus protection          FIPS 140-2 validated AES 256-bit volume based data encryption          Importable SSL certificates          OpenVPN up to 256bit SSL/TLS, PPTP up to 128bit encryption          Radius Server          Instant alert via E-mail, SMS, Instant Messaging, LCD</p>
<b>Surveillance Station</b>	<p>2 channel free, up to 16 channels possible (fee-based)          IP camera finder software and configuration</p>
<b>Multimedia</b>	<p>UPnP Media Server          Built-in TwonkyMedia Server          Real-time &amp; Background Photo Transcoding          Supports UPnP Media Player Such as PlayStation 3 and Xbox 360          Supported format (The actual playback capabilities may vary depending on the UPnP client.)            Audio: MP3, MP4, M4A, M4A (ALAC), M4B, 3GP, APL, AC3, M1V, M4V, MOV, AAC, AMR, AWB,                WAV, PCM, LPCM, MP1, MP2, AIF, AIFF, AIFC, SND, WMA, OGG, FLAC            Photo: JPG, JPE, JPEG, TIFF, TIF, GIF, PNG, BMP            Video: WMV, ASF, VDR, AVI, XVID, DIVX, FLV, MPG, MPE, MTS, M2TS, M2T,                MPEG, SPTS, M2P, M2V, MP2T, MP2P, MPG2, DVR-MS, VOB            Playlist: M3U, M3U8, WPL, PLS</p> <p>DLNA Server          Supports DLNA/UPnP TVs and Players such as PlayStation 3 and Xbox 360          Supported audio format: AIFF, APE, DSD (DSF, DFF), FLAC, M4A, M4A Apple Lossless (ALAC), MP3,                Ogg Vorbis, WAV (PCM, LPCM), WMA, WMA PRO, WMA VBR          DRM encryption format is not supported.          Support CUE indexing file for APE, FLAC audio format.          Video and Audio On-the-fly Transcoding</p> <p>Multimedia Device          Supports Photo, Audio and Video          Image Slideshow and Rotation          Automatic &amp; Schedule Thumbnail Generation for Easy Browsing          Display Photo Details from EXIF: Date, Exposure Time, Aperture, etc.          Display Audio Details from ID3 Tag: Album Cover, Title, Artist, Album, etc.          Access Authority Management          Multimedia (Video &amp; Audio) Streaming          Supports Cooliris          Supports Web Publishing (Facebook, MySpace, MSN Live, Twitter, Plurk, Blogger)          Share Photos by Email          Supported Formats:            Photo - JPG/JPEG, GIF, PNG            Audio - MP3            Video              Playback: FLV, MPEG-4 Video (H.264 + AAC)              AVI, M4V, MPG/MPEG, RM/RMVB, WMV</p>

**Software specification**

<b>Application center</b>	Diverse applications downloadable via App center Fujitsu NAS Explorer, Fujitsu NAS Manager for Android / iOS
<b>Download Station</b>	BitTorrent (FTP/ HTTP scheduled download) Support of TCP/ UDP tracker protocol, distributed hash table/DHT Up to 500 BT download tasks Download configuration / download status list RSS download manager, subscription to RSS feeds, RSS download Multiple URLs in one task
<b>Supported operating systems</b>	Windows 8.1 Windows 8 Windows 7 Windows Vista® Windows® XP Mac OS X Linux UNIX Windows® Server 2012 Windows® Server 2008 R2 Windows® Server 2003
<b>Browser Support</b>	Internet Explorer 10+ / Mozilla Firefox 8, 9, 10 / Apple Safari 4, 5 / Google Chrome

**Supported formats**

<b>Supported file system</b>	EXT4 (internal/external HDD) EXT3 (internal/external HDD) NTFS (external HDD) FAT32 (external HDD) HFS+ (external HDD)
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**Electrical values**

<b>Device Classification</b>	Information according to ErP Regulation (EC) No. 1275/2008 – Standby/networked standby requirements:  All CELVIN® NAS Servers have a so called “EUP-mode” implemented. With activated “EuP-mode” the device has a maximum power consumption of 0.5 W in standby mode by limited functionality. (Details are described in the operating manual) The intended use of these type of networked infrastructure device is providing always available data access while operating (i.e. “always on”). The requirement of networked standby mode function as described in Regulation (EC) No. 1275/2008 Annex II, 3(b) (“Power management for networked equipment”) would be inappropriate for this intended use of the equipment. It could only be achieved by turning off vital components of the equipment that are essential for the maintenance of the intended use.
<b>Power consumption</b>	Off-mode (EuP-mode):0.5W Off-mode (WoL-mode enabled):1.0W HDD-Sleep mode :25.1W Idle-mode:43.3W HDD R/W-mode: 51.3W
<b>Power supply input</b>	Internal power supply 250W 50-60Hz Input: 100-240V AC

**Compliance**

<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class B
<b>Compliance link</b>	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	180 x 235 x 177 mm
<b>Weight</b>	Net weight: 3.65 kg, Gross weight: 4.65 kg; Package incl. System w/o
<b>Operating ambient temperature</b>	0 - 40 °C
<b>Operating relative humidity</b>	5 - 95 % (relative humidity)
<b>Acoustic noise level</b>	HDD sleep:13.7 dB In operation: 22.4 dB (4x 500GB HDD)

CELVIN NAS Server Q802; Power Cord, CD, LAN cable, Key for tray lock, trays, Quick Start Guide, Service flyer

**Order information**

S26341-F103-L211	EAN: 4051554629076	Single Tray with 1 TB NAS Hard Disk Drive
S26341-F103-L212	EAN: 4051554629083	Single Tray with 2 TB NAS Hard Disk Drive
S26341-F103-L213	EAN: 4051554629090	Single Tray with 3 TB NAS Hard Disk Drive

**Order information**

S26341-F103-L214	EAN: 4053026594257	Single Tray with 4 TB NAS Hard Disk Drive
S26341-F103-L802	EAN: 4051554433659	w/o Hard Disk Drives, 4 trays included
S26341-F103-L811	EAN: 4051554626419	4 x 1 TB NAS Hard Disk Drives
S26341-F103-L812	EAN: 4051554626679	4 x 2 TB NAS Hard Disk Drives
S26341-F103-L813	EAN: 4051554626662	4 x 3 TB NAS Hard Disk Drives
S26341-F103-L816	EAN: 4051554635763	2 x 3 TB NAS Hard Disk Drives
S26341-F103-L817	EAN: 4051554636029	4 x 2 TB NAS Hard Disk Drives INT (EU/UK/CH power cord)
S26341-F103-L818	EAN: 4051554636036	4 x 3 TB NAS Hard Disk Drives INT (EU/UK/CH power cord)
S26341-F103-L824	EAN: 4053026585880	4 x 4 TB NAS Hard Disk Drives
S26341-F103-L874	EAN: 4053026518949	4 x 4 TB BC Hard Disk Drives EU
S26341-F103-L880	EAN: 4053026431354	w/o Hard Disk Drives, 4 trays included, (EU/UK/CH power cord)
VFY:CQ802XX020E1	EAN: 4051554633165	4 x1 TB NAS Hard Disk Drives EU
VFY:CQ802XX030E1	EAN: 4051554633172	4 x 2 TB NAS Hard Disk Drives EU

# More information

## Fujitsu OPTIMIZATION Services

In addition to FUJITSU CELVIN® NAS Q802, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about FUJITSU CELVIN® NAS Q802, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/accessories](http://www.fujitsu.com/fts/accessories)

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



**Green  
Policy  
Innovation**

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