

# Data Sheet

## Fujitsu CELVIN® NAS QR802

Powerful 4-Drive NAS Rack Solution

The Fujitsu CELVIN® NAS Server QR802 is the ideal solution 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 has dual power supplies for superior reliability with up to 16 TB of storage capacity and is designed to be rack mounted right alongside other networked enterprise equipment.

### Business Server Features

- Rack mountable
- Four hot swappable business critical or NAS drives
- VMWare®/Citrix®/HyperV™ Capable
- Redundant power supplies and cooling

### Reliability

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



# CELVIN® NAS QR802

## Technical specifications

	Firmware based on 4.1.1 Processor: Intel® Atom™ D270x 2,1GHz Memory: 1 GB DDRIII RAM 512 MB Flash on DOM FAN: 2 x quiet cooling fan (4cm) Intel® 82574L NIC x2 Gigabit LAN Formfactor: 1U rackmount
<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 HDD drives hot swappable
<b>Hard disk notes</b>	24 x 7 NAS Edition Drives
<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
<b>Color</b>	Black housing, copper colored trays

## Interfaces

<b>USB 2.0 total</b>	Front side: x1; rear side: x4
<b>USB 3.1 Gen1 (USB 3.0) total</b>	Rear side: x2
<b>eSATA</b>	Rear side: x2
<b>VGA</b>	Rear side: x1 (maintenance only)
<b>LAN / Ethernet</b>	Rear side: x2 Gigabit RJ-45 Ethernet port (always on)

## Network protocols

<b>Networking</b>	<p>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)</p> <p>DHCP client, DHCP server including PXE boot          CIFS/SMB(1.0,2.0,2.1 selectable), AFP/Netatalk3.2, NFS v3, HTTP, HTTPS, FTP,SFTP(admin),          DDNS, NTP, Telnet, SSH, iSCSI, SNMP, WebDAV, S MSC          Dual Gigabit w/ Jumbo Frame, Bonjour</p> <p>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          M/C/S (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)</p> <p>Support for VMware VSphere 4 and 5 via NFS and iSCSI          Windows Server 2008 support (Hyper-V &amp; failover clustering)          Citrix XenServer (6.0)</p> <p>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</p>
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<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>Primary languages: English, German, Czech, Danish, Spanish, French, Italian, Norwegian, Polish, Russian, Finish, Swedish, Dutch, Turkish, further languages available via GUI</li> </ul>
<b>FTP Server</b>	<ul style="list-style-type: none"> <li>FTP remote access (max. 256 concurrent connections)</li> <li>FTP with SSL/ TLS (explicit) mode</li> <li>FTP bandwidth control and connection control</li> <li>Passive FTP port range control</li> <li>FXP support</li> <li>TFTP server (PXE boot)</li> <li>SFTP (admin only)</li> </ul>

<b>Printer Server</b>	USB printer network sharing (Windows / Mac) Internet printing protocol, printer management, Apple Bonjour printing
<b>Web Server</b>	Built-in editable php.ini, SQLite and MySQL Web-based management via phpMyAdmin Max. 32 virtual hosts
<b>MySQL Server</b>	MySQL database server
<b>Security</b>	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
<b>Surveillance Station</b>	2 channel free, up to 16 channels possible (fee-based) IP camera finder software and configuration
<b>Multimedia</b>	<p>UPnP Media Server</p> <ul style="list-style-type: none"> <li>Built-in TwonkyMedia Server</li> <li>Real-time &amp; Background Photo Transcoding</li> <li>Supports UPnP Media Player Such as PlayStation 3 and Xbox 360</li> <li>Supported format (The actual playback capabilities may vary depending on the UPnP client.) <ul style="list-style-type: none"> <li>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</li> <li>Photo: JPG, JPE, JPEG, TIFF, TIF, GIF, PNG, BMP</li> <li>Video: WMV, ASF, VDR, AVI, XVID, DIVX, FLV, MPG, MPE, MTS, M2TS, M2T, MPEG, SPTS, M2P, M2V, MP2T, MP2P, MPG2, DVR-MS, VOB</li> <li>Playlist: M3U, M3U8, WPL, PLS</li> </ul> </li> </ul> <p>DLNA Server</p> <ul style="list-style-type: none"> <li>Supports DLNA/UPnP TVs and Players such as PlayStation 3 and Xbox 360</li> <li>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</li> <li>DRM encryption format is not supported.</li> <li>Support CUE indexing file for APE, FLAC audio format.</li> <li>Video and Audio On-the-fly Transcoding</li> </ul> <p>Multimedia Device</p> <ul style="list-style-type: none"> <li>Supports Photo, Audio and Video</li> <li>Image Slideshow and Rotation</li> <li>Automatic &amp; Schedule Thumbnail Generation for Easy Browsing</li> <li>Display Photo Details from EXIF: Date, Exposure Time, Aperture, etc.</li> <li>Display Audio Details from ID3 Tag: Album Cover, Title, Artist, Album, etc.</li> <li>Access Authority Management</li> <li>Multimedia (Video &amp; Audio) Streaming</li> <li>Supports Cooliris</li> <li>Supports Web Publishing (Facebook, MySpace, MSN Live, Twitter, Plurk, Blogger)</li> <li>Share Photos by Email</li> <li>Supported Formats: <ul style="list-style-type: none"> <li>Photo - JPG/JPEG, GIF, PNG</li> <li>Audio - MP3</li> <li>Video <ul style="list-style-type: none"> <li>Playback: FLV, MPEG-4 Video (H.264 + AAC)</li> <li>AVI, M4V, MPG/MPEG, RM/RMVB, WMV</li> </ul> </li> </ul> </li> </ul>
<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
<b>Video formats</b>	
<b>Picture formats</b>	Media Server): .jpg, .jpe, .jpeg, .tiff, .tif, .gif, .png, .bmp
<b>Supported file system</b>	EXT4 (internal/external HDD) EXT3 (internal/external HDD) NTFS (external HDD) FAT32 (external HDD) HFS+ (external HDD)
<b>Special features</b>	
<b>Electrical values</b>	
<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): 1.5W Off-mode (WoL-mode enabled): 9.6 W HDD-Sleep mode: 35.5W Idle-mode: 49.5W Raid5-R/W-mode: 57.6 W all with two active power supplies installed
<b>Power supply input</b>	Internal swappable power supply module 2x250W 50-60Hz Input: 100-240V AC
<b>Compliance</b>	
<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class A
<b>Compliance notes</b>	FCC Class A Warning This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>
<b>Dimensions / Weight / Environmental</b>	
<b>Dimensions (W x D x H)</b>	439 x 499 x 44 mm
<b>Weight</b>	Net weight: 7.6 kg, Gross weight: 9.6 kg
<b>Operating ambient temperature</b>	0 - 40 °C
<b>Operating relative humidity</b>	5 - 95 % (relative humidity)

**Package content**

CELVIN NAS Server QR802  
 2x Power Cord EU Plug  
 CD  
 2x LAN cable  
 2x Key for tray lock  
 4x Trays  
 2x rail mounting kit  
 Quick Start Guide  
 Service flyer

**Order code**

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
S26341-F103-L214	EAN: 4053026594257	Single Tray with 4 TB NAS Hard Disk Drive

**Warranty**

<b>Warranty period</b>	2 years
<b>Warranty type</b>	Onsite warranty
<b>Recommended Service</b>	X - 2/3 years, 9x5, Onsite Response Time: Next Business Day or Second Business Day
<b>Spare Parts availability</b>	3 years

# More information

In addition to Fujitsu CELVIN® NAS QR802, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

## Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

## Computing Products

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

## Software

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

## More information

Learn more about Fujitsu CELVIN® NAS QR802, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com>

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