

Data Sheet

Fujitsu CELVIN® NAS Server QR802 Storage

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 12 TB of storage capacity and is designed to be rack mounted right alongside other networked enterprise equipment.

Business Server Features

- Multifunctional business server features bridges the worlds of SAN and NAS, enables cross-platform file sharing between Windows, Mac or Linux and support virtualization applications
- Hot swappable drives
- VMWare®/Citrix®/HyperV™ Capable
- iSCSI storage for cluster virtualization
- Encrypted remote replication for archiving

Backup Management

- Comprehensive backup features to manage the challenge of data growth on physical and virtual machines in heterogeneous environments.
- Easy to use online management software
- Offsite remote replication
- Data backup to cloud or external storage devices
- Support for third party software

Multimedia Features

- Up to 12 TB storage capacity
- Easy scale-up with up to six hard disk drives including online management tools
- Virtual disk expansion virtual disc expansion with bandwidth aggregation on two network ports for increased flexibility
- Online capacity expansion and RAID level migration

Reliability

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





CELVIN® NAS Server QR802

Technical specifications

	<p>Firmware based on 3.7.4 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</p>
Hard disk capacity	Up to 4 x 2.5-inch or 3.5-inch SATA I/II/SATA 6Gb/s HDD or SSD up to 12TB raw capacity, consult HDD compatibility list HDD drives hot swappable
Hard disk notes	24 x 7 NAS Edition Drives
Required interface	Ethernet plug
LED	USB Status HDD 1 -4 LAN Power
System controls	Power button, One-touch copy button, Alarm Buzzer (System Warning), Reset Button
Color	Black housing, copper colored trays
Network protocols	
Networking	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, AFP/Netatalk3.2, NFS v3, HTTP, HTTPS, FTP,SFTP(admin), DDNS, NTP, Telnet, SSH, iSCSI, SNMP, WebDAV, SMC Dual Gigabit w/ Jumbo Frame, Bonjour iSCSI initiator for virtual disks (max 8 disks); stack chaining master Virtual disk support for EXT3/ EXT4/ NTFS/ FAT32/ HFS+ Support for VMware VSphere 4 and 5 via NFS and iSCSI Windows Server 2008 support (Hyper-V & failover clustering) Citrix XenServer (6.0) iSCSI target (with multi-LUNs per target) iSCSI LUN online expansion LUN mapping / LUN masking Up to 256 LUNs SCSI Primary Commands -3 (SPC-3) support / persistent reservation MC/S (multiple TCP connections / session) support to reach iSCSI target MPIO (multipath input output) for load balancing and failover VLAN 802.1Q USB WiFi-Adapter support IEEE 802.11b/g/n WEP, WPA-personal (AES/TKIP), WPA2-personal (AES) Connection to wireless network or Ad Hoc network

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

FTP Server	<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 support TFTP server (PXE boot) SFTP (admin only)</p>
Printer Server	<p>USB printer network sharing (Windows / Mac) Internet printing protocol, printer management, Apple Bonjour printing</p>
Web Server	<p>Built-in editable php.ini, SQLite and MySQL Web-based management via phpMyAdmin Max. 32 virtual hosts</p> <p>Browser support: Internet Explorer 7+ Firefox 3+ Safari 3+ Google Chrome</p>
MySQL Server	MySQL database server
Security	<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>
Surveillance Station	<p>1 channel free, up to 12 channels possible (fee-based) IP camera finder software and configuration</p>
Media Server	<p>UPnP Media Server Twonky Media iTunes server Supports UPnP Media player Game consoles Xbox360, PS3, PSP DMP/DMA Multimedia station features Realtime & background photo transcoding</p>
Download Station	<p>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</p>
Interfaces	
USB 2.0 total	Front side: x1; rear side: x4
USB 3.0 total	Rear side: x2
eSATA	2 x (rear / SATA)
Video formats	(Media Server): wmv, asf, vdr, avi, xvid, divx, flv, mpg, mpe, mts, m2ts, m2t, mpeg, spts, m2p, m2v, mp2t, mp2p, mpg2, dvr-ms
Subtitle formats	(Media Server): m3u, m3u8, wpl, pls
Music formats	(Media Server): mp3, mp4, m4a, m4b, 3gp, apl, ac3, m1v, m4v, mov, aac, amr, awb, wav, pcm, lpcm, mp1, mp2, aif, aiff, aifc, snd, wma, ogg, flac; Internet Radio (Media Server): vTuner, Shoutcast
Picture formats	Media Server): jpg, jpe, jpeg, tiff, tif, gif, png, bmp

Supported file system	EXT4 (internal/external HDD) EXT3 (internal/external HDD) NTFS (external HDD) FAT32 (external HDD) HFS+ (external HDD)
Power consumption	ErP mode: 7,9W WoL mode: 9,6 W Sleep mode: 37W Operation mode:52 W all with two active power supplies installed
Power supply input	Internal swappable power supply module 2x250W 50-60Hz Input: 100-240V AC
Compliance	
Europe	CE
USA/Canada	FCC Class A
Compliance notes	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.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	439 x 499 x 44 mm
Weight	Net weight: 7.6 kg, Gross weight: 9.6 kg
Operating ambient temperature	0 - 40 °C
Required interface	Ethernet plug
Software support (Operating system)	Windows® XP Microsoft® Windows® 7 (32 bit and 64 bit) Windows Vista® Mac OS X Linux UNIX Windows® Server 2008 R2 Windows® Server 2003
Required network	Ethernet
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-L211	Single Tray with 1 TB NAS Hard Disk Drive
S26341-F103-L212	Single Tray with 2 TB NAS Hard Disk Drive
S26341-F103-L213	Single Tray with 3 TB NAS Hard Disk Drive
S26341-F103-L890	w/o Hard Disk Drive, 4 trays included
S26341-F103-L891	4 x 1 TB NAS Hard Disk Drives
S26341-F103-L892	4 x 2 TB NAS Hard Disk Drives
S26341-F103-L893	4 x 2 TB Business Critical Hard Disk Drives, on request only
S26341-F103-L894	4 x 3 TB NAS Hard Disk Drives
S26341-F103-L895	4 x 3 TB Business Critical Hard Disk Drives, on request only
VFY:QR802XX000E1	w/o Hard Disk Drive, 4 trays included EU

Order code

VFY:QR802XX010E1

4 x 2 TB NAS Hard Disk Drives EU

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu CELVIN® NAS Server QR802, 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/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu CELVIN® NAS Server QR802, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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/>



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