FUJITSU

Data Sheet
FUJITSU Storage CELVIN® NAS QR1006 Storage

Powerful 8-Drive NAS Rack Solution

The FUJITSU Storage CELVIN® NAS QR1006 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 64 TB of storage capacity and is designed to be rack mounted right alongside other networked enterprise equipment.

Business Server Features
- Rack mountable
- Up to 8 hot swappable business critical or NAS drives
- VMWare®/Citrix®/HyperV™ Capable
- Redundant power supplies and cooling
- High peformance through 10Gbit Ethernet

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

CELVIN® NAS QR1006

Technical specifications

	Linux embedded system Firmware based on 4.2.x or higher Processor:64-Bit Quad-Core AMD® G-Series 2.0GHz Memory: 2 slots, max total 16GB DDR3L RAM; pre-installed 4GB , one free slot 512 MB Flash on DOM FAN:2x quiet cooling fan (7 cm) Formfactor: Rackmount 2U
Hard disk capacity	Up to 8 x 2.5-inch or 3.5-inch SATA I/II/SATA 6Gb/s HDD or SSD up to 64 TB raw capacity, consult HDD compatibility list NAS HDD: ready for 24x7 use; Business Critical HDD: tailored for 24x7 reliability

Interface add on cards/components (optional)

USB 2.0 total	2
USB 3.0 total	2
LAN / Ethernet	Rear side: x4 Gigabit RJ-45 Ethernet port (always on) Rear side: x1 10GbE PCI-E - pre-installed SFP + NIC)

Functional Description

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(1.0,2.0,2.1,3.0 selectable), SAMBA 4, AFP/Netatalk3.3, NFS v3, HTTP, HTTPS, FTP,SFTP(admin),
	DDNS, NTP, Telnet, SSH, iSCSI, SNMP,WebDAV,SMSC
	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
	MC/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)
	
	Support for VMware VSphere (ESXi 5.x) via NFS and iSCSI
	(VMware VAAI for iSCSI and VAAI for NAS)
	Windows Server 2008 support (Hyper-V & failover clustering)
	Windows Server 2012 R2 Hyper-V;
	ODX support
	Citrix XenServer (6.2)
	
	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

Functional Description

Backup Management	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 storage devices
	 LUN backup and restore
	 LUN point-in-time snapshot (1x)
	 Snapshot: Volume/LUN snapshots
	       Cloning of snapshots, snapshot vault, snapshot replica, snapshot agent
	       for WINDOWS VSS /VMware

File System Management	Network share management '(max. 512 shares)
	 Share folder level ACL support
	 Unicode support
	 Journaling file system
	 Web File Manager
	       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	Flexible volume / LUN with thin provisioning and space reclaim Storage pools and storage pool online expansion SSD read-only/read-write cache Disk usage status management; HDD S.M.A.R.T.; Bad blocks scan RAID 0/1/5/5/10/6, + HotSpare Online RAID capacity expansion; online RAID-level migration RAID recovery, Bitmap support ISO mounting (max 256) via Web File Manager
User Management	User quota management Microsoft Active Directory (AD) & Domain Controller support LDAP server, LDAP client Domain users login via CIFS/SMB, AFP, FTP, and File Station 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	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	OpenVPN up to 256bit SSL/TLS, PPTP up to 128bit encryption; 15 clients each PPTP Authentication: PAP, CHAP, MS-CHAP, MS-CHAPv2 Transmission package monitor OpenVPN port control OpenVPN link compression
System Tools	E-mail alert (SMTP authentication); SMS alert notification Disk usage alert HDD standby mode Automatic power on after power loss Schedule power on/ off 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

Functional Description

Event Logs	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 wizzard
Multilingual (Online) Support	English, German, Czech, Danish, Spanish, French, Italian, Norwegian, Polish, Russian, Finish, Swedish, Dutch, Turkish, Greek, Hungarian, Portuguese (Brazil), Romanian, Japanese, Korean, Thai, Chinese (Traditional & Simplified)
FTP Server	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)
Printer Server	USB printer network sharing (Windows / Mac) 3 printers maximum Internet printing protocol, printer management, Apple Bonjour printing
Web Server	Built-in editable php.ini, SQLite and MySQL Web-based management via phpMyAdmin Max. 32 virtual hosts
MySQL Server	MySQL database server
Security	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
Surveillance Station	Includes 4 free camera licenses, up to 40 camera channels via additional license purchase Instant playback to check recent events Online editing to edit cameras during live view Visual aid by e-map Playback and speed control using the shuttle bar Video preview on playback timeline Intelligent video analytics (IVA) for advanced video searching Surveillance Station via App Center

Supported Operating Systems and Browsers

Supported operating systems	Windows 10 Windows 8.1 Windows 8 Windows 7 Mac OS X Linux UNIX Windows® Server 2012 R2 Windows® Server 2012 Windows® Server 2008 R2 Windows® Server 2003
Browser Support	Internet Explorer 10+ / Edge / Mozilla Firefox 8+ / Apple Safari 4+ / Google Chrome

Supported formats

Supported file system	EXT4 (internal/external HDD) EXT3 (external HDD) NTFS (external HDD) FAT32 (external HDD) HFS+ (externel HDD)

Electrical values

Power consumption	HDD-Sleep mode: 51,3W (with 10GbE NIC) Operation: 107,3W (with 10GbE NIC)

Compliance

Europe	CE
USA/Canada	FCC Class A
Compliance notes	* Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Dimensions / Weight / Environmental

Dimensions (W x D x H)	482 x 534 x 89 mm
Operating ambient temperature	0 - 40 ℃
Operating relative humidity	5 - 95 % (relative humidity)
Acoustic noise level	Sound pressure (LpAm) :36.4 dB(A) Refer to ISO 7779

Package content

	CELVIN® NAS QR1006; Power Cord, LAN cable, Key for tray lock, trays, Quick Start Guide Please note: Rail kits are not included in the package.

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
	S26341-F103-L216	EAN: 4053026871037	Single Tray with 6 TB NAS Hard Disk Drive
	S26341-F105-L4	EAN: 4057185592000	CELVIN RAM 4GB DDR3L SO-1600
	S26341-F105-L8	EAN: 4057185776219	CELVIN RAM 8GB DDR3L SO-1600
	S26341-F107-L1	EAN: 4057185676113	RAIL Kit for CELVIN NAS QR806/1006
	S26341-F107-L906	EAN: 4057185683173	w/o HDD, EU
	S26341-F107-L942	EAN: 4057185685078	4x2TB NAS HDD, EU
	S26341-F107-L943	EAN: 4057185683418	4x3TB NAS HDD, EU
	S26341-F107-L944	EAN: 4057185683456	4x4TB NAS HDD, EU
	S26341-F107-L946	EAN: 4057185683494	4x6TB NAS HDD, EU
	S26341-F107-L982	EAN: 4057185683531	8x2TB NAS HDD, EU
	S26341-F107-L983	EAN: 4057185683579	8x3TB NAS HDD, EU
	S26341-F107-L984	EAN: 4057185683616	8x4TB NAS HDD, EU
	S26341-F107-L986	EAN: 4057185683654	8x6TB NAS HDD, EU
	S26341-F107-L993	EAN: 4057185683692	8x3TB BC HDD, EU
	S26341-F107-L994	EAN: 4057185685023	8x4TB BC HDD, EU
	S26361-F3989-L102	EAN: 4051554334383	

Warranty

Warranty period	2 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Recommended Service	2/3 years, 9x5, Onsite Response Time: Next Business Day or Second Business Day
Spare Parts availability	3 years
Service Weblink	http://www.fujitsu.com/fts/services/support

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU Storage CELVIN® NAS QR1006, 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/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU Storage CELVIN® NAS QR1006, 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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