FUJITSU

Data Sheet
FUJITSU CELVIN® NAS Q902 Storage

Powerful 6-Drive NAS

The Fujitsu CELVIN® NAS Server Q902 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 perfect for storing massive amounts of unstructured data or the management of virtual machines with scalability up to 18 TB and additional virtual disk expansion.

Business Server Feature
- 6 hot swappable drives
- Integrated backup server with diverse replication modes
- iSCSI storage for cluster virtualization
- 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 Q902

Technical specifications

	Firmware based on 4.1.1 Processor: Intel® Atom™ D2700 2,13GHz Memory: 2 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
Hard disk capacity	Up to 6 x 2.5-inch or 3.5-inch SATA I/II/SATA 6Gb/s HDD or SSD up to 24TB raw capacity, consult HDD compatibility list
LED	USB Status HDD 1 -6 LAN Power
System controls	Power button, One-touch copy button, Alarm Buzzer (System Warning), Reset Button, Display mode button
Color	Black housing, copper colored trays

Interfaces

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

Software specification

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), AFP/Netatalk3.2, NFS v3, HTTP, HTTPS, FTP,SFTP(admin),
	DDNS, NTP, Telnet, SSH, iSCSI, SNMP,WebDAV,SMSC
	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
	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 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

Software specification

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/eSATA storage devices LUN backup and restore LUN point-in-time snapshot (1x)

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	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	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	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
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
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)

Software specification

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) 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, LCD
Surveillance Station	2 channel free, up to 16 channels possible (fee-based) IP camera finder software and configuration

Multimedia	UPnP Media Server
	    Built-in TwonkyMedia Server
	    Real-time & 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
	
	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
	
	Multimedia Device
	    Supports Photo, Audio and Video
	    Image Slideshow and Rotation
	    Automatic & 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 & 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

Software specification

Application center	Diverse applications downloadable via App center Fujitsu NAS Explorer, Fujitsu NAS Manager for Android / iOS
Download Station	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
Supported operating systems	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
Browser Support	Internet Explorer 10+ / Mozilla Firefox 8,9,10 / Apple Safari 4,5 / Google Chrome

Supported formats

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

Electrical values

Device Classification	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.
Power consumption	Off-mode (EuP-mode):0.5W Off-mode (WoL-mode enabled):1.0W HDD-Sleep mode :31.5W Idle-mode :63.6W HDD R/W-mode: 71.1W
Power supply input	Internal power supply 250W 50-60Hz Input: 100-240V AC

Compliance

Europe	CE
USA/Canada	FCC Class B
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Dimensions / Weight / Environmental

Dimensions (W x D x H)	257 x 235 x 175 mm
Weight	Net weight: 5.3 kg, Gross weight: 6.6 kg; Package incl. System w/o HDD
Operating ambient temperature	0 - 40 ℃
Operating relative humidity	5 - 95 % (relative humidity)
Acoustic noise level	HDD sleep:18.3 dB In operation: 25.5 dB (6x 500GB HDD)

CELVIN NAS Server Q902; 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-L902	EAN: 4051554444150	w/o Hard Disk Drive, 6 trays included
	S26341-F103-L911	EAN: 4051554626655	6 x 1 TB NAS Hard Disk Drive
	S26341-F103-L912	EAN: 4051554626686	6 x 2 TB NAS Hard Disk Drive
	S26341-F103-L913	EAN: 4051554626693	6 x 3 TB NAS Hard Disk Drive
	S26341-F103-L914	EAN: 4053026586009	6 x 4 TB NAS Hard Disk Drive
	S26341-F103-L916	EAN: 4051554636043	4 x 3 TB NAS Hard Disk Drive
	S26341-F103-L917	EAN: 4051554636050	6 x 2 TB NAS Hard Disk Drive INT (EU/UK/CH power cord)
	S26341-F103-L918	EAN: 4051554636067	6 x 3 TB NAS Hard Disk Drive INT
	S26341-F103-L974	EAN: 4053026518963	6 x 4 TB BC Hard Disk Drive EU
	S26341-F103-L980	EAN: 4053026431361	w/o Hard Disk Drives, 6 trays included, (EU/UK/CH power cord)
	VFY:CQ902XX000E1	EAN: 4051554595548	6 Trays without Hard Disk Drives
	VFY:CQ902XX030E1	EAN: 4051554633189	6 x 2 TB NAS Hard Disk Drive EU
	VFY:CQ902XX040E1	EAN: 4051554633196	6 x 3 TB NAS Hard Disk Drive EU

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU CELVIN® NAS Q902, 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 Q902, 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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