

FibreCAT[®] NX40 File and Print Server with iSCSI Technology

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FibreCAT is Fujitsu Siemens Computers range of storage systems. They offer impressive scalability, reliability, and technical brilliance. FibreCAT stands for the particularly close integration and smooth interaction of servers and storage systems.

The FibreCAT NX40 is a file and print servers with the operating system "Windows Storage Server 2003 R2". The systems come pre-tested, pre-installed and pre-configured and can therefore be ready for use in just a few minutes. The FibreCAT NX40 is also optionally available with iSCSI functionality.

The FibreCAT NX40 is a file and print server for small and medium-sized enterprises (SME) with the operating system Windows Storage Server 2003 R2. The system is based on the successful PRIMERGY servers and is a rack housing model that comprises just two height units (2HE). The system can be equipped with SATA II and high-performance SAS hard disks and in its full configuration offers a internal storage capacity of 2 TB. External storage systems can be added on via external interfaces (FibreChannel or SCSI) to increase the storage capacity of the system allowing the system to therefore function as a SAN/NAS gateway for the FibreCAT SX family. Setting up the FibreCAT NX40 is only a matter of minutes, as it is delivered pre-tested, pre-installed and pre-configured and can be easily integrated into the existing network. The FibreCAT NX40 is also optionally available with iSCSI Target functionality.



Key Features	Benefits
<ul style="list-style-type: none"> ■ File and print server 	<ul style="list-style-type: none"> ■ Based on Windows Storage Server 2003 R2 for full Microsoft integration ■ One storage solution for all file-and-print server tasks ■ Print service is standard in the basic version ■ iSCSI Target functionality is optionally available
<ul style="list-style-type: none"> ■ Easy installation and integration ■ SAN/NAS Gateway 	<ul style="list-style-type: none"> ■ The FibreCAT NX40 is based on the proven PRIMERGY server hardware ■ The appliance is pre-tested, pre-installed and pre-configured and very easy to install in existing IT environments ■ SAN/NAS Gateway for the FibreCAT SX family, extension via SCSI or FibreChannel interface
<ul style="list-style-type: none"> ■ Windows Storage Server 2003 R2 	<ul style="list-style-type: none"> ■ Optimized file server performance ■ Point-in-time copying of the data pools with volume shadow copy (VSS) services ■ Optimized search and storage mechanisms for files
<ul style="list-style-type: none"> ■ Management Console (MMC) 	<ul style="list-style-type: none"> ■ Central and easy control of all administration and management tasks

Typ	Storage NAS Rack Server
System board	D2119
Chipset	Intel® 5000P
Processors	1 Dual Core Intel® Xeon™ (2nd CPU optional)
Processors	Dual Core Intel® Xeon™ 5060 (3.20 GHz)
Front-Side-Bus	1066 MHz
Second-Level-Cache	2 x 2 Mbyte (5100 Serie) ECC
Memory	1 GB bis zu max. 4 GB
4-way interleaved, FullyBuffered DIMM DDR2 FBD533/667, ECC; 8 slots divided into 2 branches with 2 channels each for PC2-4200F/5300F modules; in 1GB steps expandable up to 4GB, SDDC (Chipkill), Memory Mirroring option	
Flash EPROM	Local BIOS Update with floppy disk; Remote BIOS-Update via LAN with Global-Flash and service partition
Interfaces	
Serial	1 x RS-232-C (9-pol) 1 x RS-232-C (9-pol) Option
Parallel (option)	Centronics 25-pin, EPP/ECP compatible
Keyboard, Mouse	2 x PS/2
USB 2.0	2 x front, 2 x back (OHCI, 480 Mbit/s)
Graphics	1 x VGA (15-pin)
LAN	2 x RJ45
Controller onboard **	
IDE	ATA100 (DVD ROM /CD-RW + RemoteView)
SAS (Brockton) MagaRAID PCI Express™ RoMB	8 Port SAS Controller with integrated RAID Level 0, 1, 10, 5, 50 with 256MB iTBBU (Cache with integrated BBU)
MagaRAID PCI Express™ RoMB (Option)	RAID Level 0, 1, 10, 5, 50, Extension for onboard SAS RAID-Controller with iButton (enable key) and 256MB Cache or 256MB iTBBU (Cache with integrated BBU)
LAN (BroadCOM5715)	2 x 10/100/1000 Mbit/s Ethernet (PCE-Boot via LAN from PXE server)
Server Management	Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 compatible
Protocols	CIFS, NFS, HTTP, FTP, DHCP-Server, iSCSI (optional)
Hard disk drives (hot-plug)	SATA II 2 x 80 GB (RAID 1) in basic version; extension with 4 x 250GB or 4 x 500GB (RAID 5) SAS 2 x 36 GB (RAID 1) in basic version; extension with 4 x 146GB or 4 x 300GB (RAID 5)
1 Gbyte equals one billion bytes when referring to hard disk drive capacity, accessible capacity may vary.	
RAID Level	1, 5 (more via RAID controller)
I/O Slots	1 x PCIe-x8 Low Profile 1 x PCIe-x4 Low Profile, Hot-plug 2 x PCI-x 64-bit / 133MHz, Low Profile; 3,3 V
Drive bays	
Für Hot-plug hard disks	6 x 3.5/1-inch, for SAS
For accessible drives	1 x 5.25/0.5 inch, for DVD-ROM (occupied), 1 x 3.5/0.5 inch for LocalView Display (equipped)

System fan units (hot-plug)	
Standard / redundant	1 + 1 Einheiten, 4 fans each
Redundant Hot-plug power supply unit as standard.	
Output power	2 x 600 W
Apparet power	689 VA
Active power	681 W
max. rated current	8.5A – 3.8 A (100 V – 240 V)
Heat emission	2452 KJ/h (2324 btu/h)
Rated voltage range	100 V - 240 V
Rated frequency	50 - 60 Hz
Temperature/Noise/Dimension/Weight	
Ambient temperature	10°C - 35°C (EN 60721-3-3 Class 3K2)
Declared noise emission according to ISO 9296	Idle / operating (ISO 7779)
L _{PA} m (bystander position)	53 dB / 60 dB
L _{WA} d (1B=10dB)	6,8 B / 7,5 B
Overall measures (H x W x D)	85.9 x 482.6 x 785 mm
Rack mount depth / U Rack cable depth	745 mm (2 U) 100 mm (900 mm Rack recommended)
Weight	ca. 25 kg (configuration dependent)
Compliance with Norm and Standards	
Product safety	
Global / Europe	IEC 60950-1 / EN 60950-1
USA	UL 60950 3rd. ED.
Canada	CAN/CSA-C22.2 No. 60950-1
Elektro magnetic compatibility	
Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / 3-3
Taiwan / Japan	BSMI class A; VCCI class A / JEIDA
Australia / New Zealand	C-Tick class A
USA / Canada	FCC class A
Declaration of conformity	
Europe (CE)	89/336/EEC (EMV); 73/23 EEC (LVD)
North America	FCC class A
Reference to class A	
This product, together with the Fujitsu Siemens released accessory components / -material, is in compliance with the objectives of emission class A. In certain cases measures have to be taken to reduce the electro magnetic influence to other equipment.	
Approvals	
Product safety	
Global	CB
Europe	CE
USA / Canada	CSA _{US} / CSA _C
There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.	
Operating System	
Microsoft® Windows™ Storage Server 2003 R2 (Standard Block Mode with Print Service)	
** For supported hardware adapters (FC, SCSI, LAN, RAID controller), refer to the information in the associated system configurator.	
Server Management	
Standard	ServerView iRMC (integrated Remote Management Console)
Optional	iRMC advanced