

SCSI Disk Subsystem DN42 Rack Version (dual port)

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The new Tower version of the SCSI disk subsystem extends the product range of external storage media for PRIMEPOWER.

The dual-port DN42 can be connected to a stand-alone server and is also suitable for high-availability solutions through connection to two cluster nodes. The host connections are set up via the dual-channel SCSI U320 controller.

Scaleable memory capacity is critically important in today's IT environments.

Thanks to new applications in the areas of eBusiness and eCommerce, there is ever-greater demand for fast, scaleable storage solutions for server systems.

What is needed here is a compact and easy to administer storage subsystem.

Redundant and online replaceable power supply modules guarantee high availability and reliability.

The DN42 disk subsystem can accommodate up to 14 (2 x 7) hard disks, each with a capacity of 73, 146, 300 Gbytes in a compact housing that can also be positioned under the desk. This allows additional storage capacities of up to 4,2 Terabytes to be used.

A LED display provides information on the operating status of the most important internal modules.

Software raid (Redundant Array of Independent Disks):
Raid0 (striping) und Raid1 (mirroring) functions via controller CS12 and Solaris.

Graphical disk-OLR support via "Server View" like at hardware-raid.

Server management

The operating states of fans and power supplies are signaled to the connected servers via SCSI/IF in accordance with the SAF-TE standard (SCSI Accessed Fault-Tolerant Enclosures).

That on and switch off occur together with the server about the terminator voltage one wire in the SCSI cable.

It is powered on by the first server connected and powered off again by the server that was powered down last. This function is very important for operation with two nodes and is of benefit, for example, in web server environments.

Availability

The subsystem has redundant (1+1) and hot-swappable power supplies by default. These of course also offer the possibility of phase redundancy through connection to two different phases of the power distribution network.



Technical specifications SCSI Disk Subsystem DN42 Rack

Type	D:GPDS2-DN423 (Rack Version) D:GPDS2-DN423F (Tower Version)
General specification	
Number of slots for hot-pluggable disks	2 x 7 3.5" (height 1")
SCSI addresses of hard disks	Automatic assignment
Host connections	2 per SCSI bus
Number of power supply modules	2 with full redundancy
Fans	2 redundant fans
Number of hard disks	
Number of channels	2 x Ultra320 SCSI with up to 14 hard disks (7 per channel)
External SCSI connectors	UHD (68-pin, screwed down)
Server controller	SCSI U320 D:GP70F-CS12
Hard disks	
Capacity	14 x 73 / 146 / 300 GB 1*
System management	
Signaling and monitoring of internal operating parameters via SAF-TE and status LEDs on the subsystem.	

1* 1GByte = 10⁹Byte

Power ratings	
Power supply	2 hot-swappable modules with a power draw of 500 W each
Apparent power	Max. 310 VA
Heat load	1100 kJ/h or 305 W
Rated voltage range	100 – 240 V
Rated frequency	50 – 60 Hz
Environmental conditions (DIN EN 60721-3-X)	
Ambient temperature	15 °C to 35 °C (acc. to IEC 721)
Noise level (ISO 9296)	
Acoustic power level (L _{wAd})	≤ 56 dB (A) (acc. to ISO 9296) (for standard configuration)
Dimensions	
Floorstand (H x W x D)	481 x 280 x 692 mm
Weight	Approx. 32 kg (maximum configuration)
Norms and standards	
Product safety	ICE 60950 (DIN EN 60950), UL 1950, CSA 950 ZH1/618
FCC audit	Class A
Electromagnetic compatibility	EN 55022 Class B EN 55024
CE certification	EU Guideline: 89/336/EEC (EMC); EN 61000-3-2 and EN 61000-3-3 73/23/EEC (product safety)
Approval	GS, CB Certificate, CSA