



ES-2100 NAS/iSCSI RAID Tower offer an easy way to supply disk capacity with full RAID 6 protection over a network.

The advantage: if a disk fails, all data remain not only available but redundant. Thus even during the automatic rebuild process single read errors can be dealt without delay. So these RAID systems offer high data security for a low price.

As NAS servers they can offer disk capacity over two 1 Gbit Ethernet ports in Windows environments as well as to Unix, Linux and MAC systems.

At the same time iSCSI volumes can be created which can be accessed over the network with an iSCSI initiator and seen like local SCSI disks. The capacity used for iSCSI volumes can be defined when creating a RAID set.

For local connection to a workstation or a PC, also USB volumes can be created.

When using two ES-2100 systems at different locations one of them can be replicated to the other in order to offer additional data protection. All changes will then be encoded and transferred to the other system, daily, weekly or monthly with defined bandwidth. Instead of a second ES-2100 also any FTP sever can be used for this purpose (in this case without coding).

Another useful feature of the 5 bay version: USB sticks plugged in at the front of the system will automatically be copied into a directory named with date and time of the backup.

As opposed to normal RAID systems designed for running in server rooms, low noise ES-2100 NAS/iSCSI Towers can also be used in office environment. And as opposed to normal USB RAIDs on the other hand, they can be accessed by many workstations or PCs at the same time.

## ES-2100 NAS/iSCSI RAID:

- NAS/iSCSI with up to 10 hot swap SATA/SAS disks (up to 4 TB per disk)
- RAID 0, 1, 5, 6, 10 and JBOD with hot spare support
- RAID level migration and RAID expansion
- e-SATA expansion port
- 2x 1 GB Ethernet with trunking and failover support (opt.: 10 Gbit with 7 bay)
- NAS server for Windows (CIFS/SMB) and Unix, Linux (NFS v3)
- some systems: NAS snapshot
- http, https and ftp
- Active Directory support
- access management on file- or folder level, quota
- iSCSI volumes (up to 16 TB per volume) for block based access, with thin provisioning
- synchronization on a second system
- also usable as USB device (direct attached)
- automatic backup of USB Devices

## Service:

- 2 years warranty
- optional: advance replacement service
- free technical support (telephone or email)

model	ES-2105	ES-2107	ES-2110
number of disks	5	7	10
disk interface	SATA-II	SATA-II (opt. SAS)	SATA-II
host interface	2x 10/100/1000 MBit/s (RJ45)	2x 10/100/1000 MBit/s (RJ45) (opt. additional 10 Gbit)	2x 10/100/1000 MBit/s (RJ45)
USB ports	3 x USB A type (host mode) 1 x USB B type (client mode)	4 x USB A type (host mode)	4 x USB A type (host mode) 2 x USB B type (client mode)
RAID features	<ul style="list-style-type: none"> <li>• RAID 0, 1, 5, 6, 10 and JBOD, max. 16 TB per RAID Set</li> <li>• auto rebuild</li> <li>• hot swap disks</li> <li>• hot spare disks</li> <li>• disk roaming</li> <li>• RAID level migration</li> <li>• RAID expansion</li> </ul>		
NAS features	<ul style="list-style-type: none"> <li>• Microsoft networks (CIFS/SMB)</li> <li>• Network File System (NFS v3)</li> <li>• File Transfer Protocol (FTP)</li> <li>• Hyper Text Transfer Protocol (HTTP)</li> </ul>		
Snapshot	yes, for NAS Volumes (with ZFS)		no
iSCSI features	<ul style="list-style-type: none"> <li>• dedicated iSCSI volumes (up to 16 TB per volume)</li> <li>• access over iSCSI initiator (hardware or software)</li> <li>• thin provisioning</li> </ul>		
max. iSCSI volumes	10	15 (25 with opt. SAS Version)	15
authentication	<ul style="list-style-type: none"> <li>• Microsoft NT Domain Controller (PDC)</li> <li>• Microsoft Active Directory Authentication (AD)</li> </ul>		
supported operating systems	Microsoft Windows 2000/XP/2003/2008/Vista/7 Unix/Linux/BSD		
management	web GUI (multilingual)		
event messaging	email, sound, LCD, SNMP		
PSU	200W, 100/220VAC, 50/60 Hz, auto detect	300W, 100/220VAC, 50/60 Hz, auto detect	300W, 100/220VAC, 50/60 Hz, auto detect
size	H: 230mm, W: 190mm, D: 230mm	H: 320mm, W: 210mm, D: 270mm	H: 436mm, W: 235mm, D: 283mm