



• NS160S

• NS170S



Internal Multi-Drive SAS/SATA JBOD Backplane Module

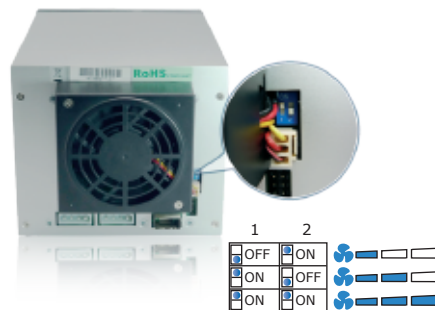
- Support both SAS/SATA (3/6 Gbps) hard disk drives
- High quality aluminum construction
- Backplane design for multiple removable SAS/SATA hard disk drive trays
- Individual key lock on each hard disk drive tray for physical security
- A Built-in fan for self-contained ventilation
- Temperature, fan failure LEDs and mutable buzzer alarm

Overview

The NS160S/NS170S series is an internal multi-drive aluminum enclosure. The SAS and SATA interface compatible backplane design supports multiple 3.5" SAS/SATA 3/6 Gbps hard disk drives with hot-swappable trays. The enclosure is equipped with a hot-swappable cooling fan for self-contained ventilation. Moreover, the enclosure features red LEDs and mutable buzzer alarm for environmental monitoring on fan failure and over temperature. Each hot-swappable tray has a built-in individual key lock for physical security, and has power/activity LEDs for each hard disk drive.

Adjustable Fan Speeds

In order to meet the requirement for quietness and best cooling ventilation, the new NS160S/NS170S series is designed with a unique fan with three adjustable fan speeds to support a wide range of hard disk drives from high capacity 7200 RPM SATA to high performance 10K/15K-RPM SAS hard disk drives. The adjustable fan speeds feature low, medium and high speeds, enabling users to make a choice for best balance between quietness and cooling for hard disk drives.



Single Connectivity for Multiple Drives

NS160S is particularly designed with a mini-SAS (SFF-8087) connector on the rear panel for single mini-SAS high bandwidth cable connectivity for four SAS/SATA hard disk drives to the host RAID controller card that is also equipped with mini-SAS connector. The secure latch of mini-SAS (SFF-8087) prevents data cable's coming off potentially and provides best cable arrangements for excellent ventilation inside of server chassis.

Host with miniSAS Connector



NS160S + miniSAS to miniSAS cable

Host with SATA Connector



NS160S + miniSAS to 4*SATA cable

Applications

NS160S/NS170S can be set for JBOD or RAID. With key components being hot-swappable, NS160S/NS170S ensures data protection to keep business critical applications running smoothly and provides solutions for daily disk-to-disk (D2D) backup, suitable for SOHO and SMEs with limited HDD tray. NS160S/NS170S is also developed for surveillance system, engineering and testing, standard-definition (SD) or high-definition (HD) video editing, and digital audio editing.

Specifications

Model	NS160S	NS170S
Host Interface	SAS/SATA (1* internal mini-SAS/SFF-8087 connector)	SAS/SATA (10* discrete SATA connectors)
HDD Interface	SAS/SATA (3/6 Gbps)	
No. of Disk(s)	4	5
RAID Function	N/A	N/A
Hot-Swappable	Both host and device	
LED Display for Each Tray	White - power-on indicator Blue - busy (HDD access) indicator	
LED Display for Enclosure	Power-on LED - white Fan normal - green; fan failure -red Temp. normal - green; temp. over 55°C - red	
Material	Aluminum housing and plastic front panel	
Power Connector	2 (Molex 4 pin)	
Cooling	One hot-swappable 80×80×25 mm cooling fan	
Alarm	Buzzer beeping for fan failure or over temperature (over 55°C) occurs	
Dimension	Fan included: 220(D)×146(W)×126(H) mm Fan excluded: 193(D)×146(W)×126(H) mm	
O.S. Support	O.S. independent	