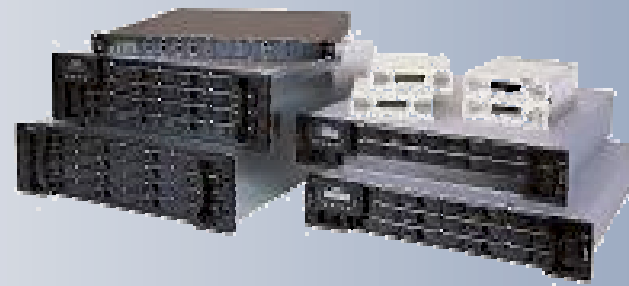


Infortrend[®]

PRODUCT-AT-A-GLANCE






2005 Q1

RAID Controller and Subsystem Specialist since 1992



Fibre RAID Controller Head and JBODs

Product Details

Model	2510FS-4S / -6S	2510FS-4RH / -6RH	2510FS-4D / -6D	A16F-J1210-G	F16F-R2J2 (Dual SES) F16F-S2J2 (Single SES)
					
	Single-UPG Fibre-Fibre RAID Controller Head *1	Redundant Fibre-Fibre RAID Controller Head *1	Dual-Single Fibre-Fibre RAID Controller Head *1	Fibre-SATA JBOD Subsystem 3U 16-Bay *2	Fibre JBOD Subsystem 3U 16-Bay *2
Form Factor *3	1U Rackmount	1U Rackmount	1U Rackmount	3U Rackmount	3U Rackmount
Drive Channels *6 Hot Swap Trays	4 / 6 Channels Fibre 2G Each channel has two SFP ports Each channel module has built-in PBC which links the two controllers and two SFP ports in one loop Every channel can be assigned as Host or Drive Channel mode Dual-loop		4 / 6 Channels Fibre 2G in each Controller, total 8 / 12 Channels Each controller has one SFP port for each channel Every channel can be assigned as Host or Drive Channel mode Dual-loop	16 Channels 16-bay (SATA Drives) IDE drives optional 2 Channels Fibre 2G Two SFP Ports per channel, total four SFP ports	2 Channels Fibre 2G Four SFP ports Dual-Loop 16-bay (2G FC-SCA Drives)
Expansion Channels					
Host Channels *6					
Redundant Controller *1	Single Controller Upgradeable to Redundant	Dual-Controller Redundant Dedicated sync-channels user configurable	Dual-Single controller Two independent RAID controllers	-	JBOD (No RAID Controller) With dual SES Module (R2J2) Or single SES Module (S2J2)
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment				
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), fibre switch support, fabric log-in (supported on fibre-host models), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive" Redundant models: Rolling-firmware-upgrade, auto-sync firmware and configuration on replacement controller				
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).				
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>				
Hot Swap Fan Modules	2	2	2	2	2
Hot Swap Power Supplies	2 x 350 W	2 x 350 W	2 x 350 W	2 x 460 W	2 x 460 W
Cache Memory	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB (PC-133 SDRAM)	-
Battery Backup *4	Included x1	Included x2	Included x2	-	-

*1 Single-UPG: Single RAID Controller Upgradeable to Redundant.
Redundant: Dual-Redundant Controller configuration
Redundant with dedicated sync-channels: Use two dedicated Fibre channels as redundant controller communication and cache synchronization for enhanced write-back performance.
Dual-Single: Two RAID controllers both operate individually. No redundant controller functions but performance simply double.

*2 JBOD models require connecting to a RAID controller or RAID subsystem order to benefit the RAID and management functions.
Single-SES: One SES module is installed.
Dual-SES: Two SES modules are installed to provide redundancy on SES module.

*3 For rack mount kits, please see page of "Rack Mount Guide".

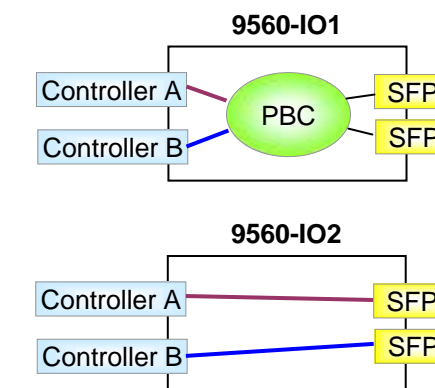
*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)
The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.
In redundant controller configuration, the two controllers should have identical cache memory and battery backup configuration.

*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD. The CD also includes RAIDWatch™ software for RAID management.

*6 Host-side dual-loop is supported by using host-side software from the OS or 3rd party to provide redundant loop and load balancing functions.
Drive-side dual-loop is supported by RAID controller on all models with Fibre drive side. RAID controller provides redundant path and dynamic load balancing on the drive-side channels. (User configurable on ER2510FS series)

*7 SFP modules are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

Channel IO Module for ER2510FS:







With PBC (port-bypass-circuit) built-in which links both controllers and both SFP ports together.

Straight-through connections with no PBC.

Fibre RAID Controller Head and JBODs

Variants & Spare Parts

Model	2510FS-4S/6S	2510FS-4RH/6RH	2510FS-4D/6D	A16F-J1210-G	F16F-R2J2 (Dual SES) F16F-S2J2 (Single SES)
	 <i>Single-UPG</i> Fibre-Fibre RAID Controller Head *1	 <i>Redundant</i> Fibre-Fibre RAID Controller Head *1	 <i>Dual-Single</i> Fibre-Fibre RAID Controller Head *1	 Fibre-SATA JBOD Subsystem 3U 16-Bay *2	 Fibre JBOD Subsystem 3U 16-Bay *2
Controller Module	9560-CTMod-4 <i>(INC x1 for -4S)</i> 9560-CTMod-6 <i>(INC x1 for -6S)</i>	9560-CTMod-4 <i>(INC x2 for -4RH)</i> 9560-CTMod-6 <i>(INC x2 for -6RH)</i>	9560-CTMod-4 <i>(INC x2 for -4D)</i> 9560-CTMod-6 <i>(INC x2 for -6D)</i>	80AF12JC16 <i>(INC x1)</i>	9270FSESM <i>(INC x2 for -R2J2)</i> <i>(INC x1 for -S2J2)</i>
Fan Module	9560-FanMod <i>(INC x2)</i>	9560-FanMod <i>(INC x2)</i>	9560-FanMod <i>(INC x2)</i>	9270CFanMod <i>(INC x2)</i>	9270CFanMod <i>(INC x2)</i>
Power Supply Module	9560-PSU <i>(INC x2)</i>	9560-PSU <i>(INC x2)</i>	9560-PSU <i>(INC x2)</i>	9270CPSU <i>(INC x2)</i>	9270CPSU <i>(INC x2)</i>
Drive Tray	-	-	-	9272CDTray <i>(INC x16)</i>	9270FDTray <i>(INC x16)</i>
Channel IO Module	9560-IO1 <i>(INC x4 for -4S)</i> <i>(INC x6 for -6S)</i>	9560-IO1 <i>(INC x4 for -4RH)</i> <i>(INC x6 for -6RH)</i>	9560-IO2 <i>(INC x4 for -4D)</i> <i>(INC x6 for -6D)</i>	-	-
RS-232 Cable	9560-Scab <i>(INC x1)</i>	9560-Ycab <i>(INC x2)</i>	9560-Scab <i>(INC x1)</i>	-	-
RS-232 Null Modem	9011 <i>(INC x1)</i>	9011 <i>(INC x1)</i>	9011 <i>(INC x1)</i>	-	-
Fibre SFP *7	9270CSFP2GA01 <i>(OPT)</i>	9270CSFP2GA01 <i>(OPT)</i>	9270CSFP2GA01 <i>(OPT)</i>	9270CSFP2GA01 <i>(OPT)</i>	9270CSFP2GA01 <i>(OPT)</i>
Rack Mount Kits <i>(See Rack Mount Guide) *3</i>	9253L20 <i>(OPT)</i>	9253L20 <i>(OPT)</i>	9253L20 <i>(OPT)</i>	9270CEncBrk 9270CSlider36 <i>(OPT)</i>	9270CEncBrk 9270CSlider36 <i>(OPT)</i>
Cache Memory *4	128 MB, 256 MB, 512MB and 1GB <i>(OPT)</i> PC-133 SDRAM Memory Module Not Included	128 MB, 256 MB, 512MB and 1GB <i>(OPT)</i> PC-133 SDRAM Memory Module Not Included	128 MB, 256 MB, 512MB and 1GB <i>(OPT)</i> PC-133 SDRAM Memory Module Not Included	128 MB PC-133 SDRAM <i>(INC x1)</i>	-
Battery Backup *5	9560-IOBT <i>(INC x1)</i>	9560-IOBT <i>(INC x2)</i>	9560-IOBT <i>(INC x2)</i>	-	-
CD, Manual and QIG *6 (Quick Installation Guide)	CD <i>(INC)</i>	CD <i>(INC)</i>	CD <i>(INC)</i>	QIG <i>(INC)</i>	QIG <i>(INC)</i>
Redundant Ctrl. Upgrade Kit	9560UP4S4RH <i>(-4S OPT)</i> 9560UP6S6RH <i>(-6S OPT)</i>	Redundant enabled, no upgrade kit required	-	-	-

*1 **SC-UPG:** Single RAID Controller Upgradeable to Redundant. Redundant: Dual-Redundant Controller configuration Redundant with dedicated sync-channels: Use two dedicated Fibre channels as redundant controller communication and cache synchronization for enhanced write-back performance. Dual-Single: Two RAID controllers both operate individually. No redundant controller functions but performance simply double.

*2 JBOD models require connecting to a RAID controller or RAID subsystem order to benefit the RAID and management functions. Single-SES: One SES module is installed. Dual-SES: Two SES modules are installed to provide redundancy on SES module.

*3 For rack mount kits, please see page of "Rack Mount Guide".

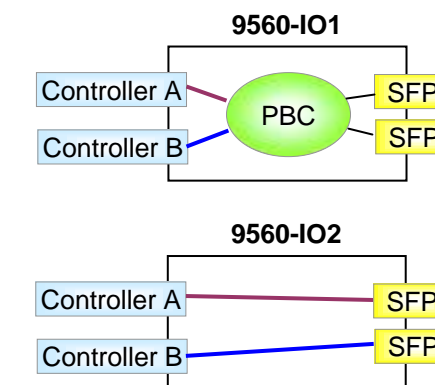
*4 The 2510FS series use PC-133 registered ECC SDRAM (168-pin DIMM) only. Please contact Infotrend for optional memory modules.

*5 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module) The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure. In redundant controller configuration, the two controllers should have identical cache memory and battery backup configuration.

*6 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD. The CD also includes RAIDWatch™ software for RAID management.

*7 SFP modules are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection. For the minimum / maximum cable length, recommended cable type, wave length and other additional information, please refer to specifications or data sheets from the SFP module manufacturers. SFP module manufacturer and model: **9270CSFP2GA01** Agilent QFBR-5751ALP

Channel IO Module for ER2510FS:








With PBC (port-bypass-circuit) built-in which links both controllers and both SFP ports together.

Straight-through connections with no PBC.

Fibre-Fibre RAID Subsystems

Product Details

Model	F12F-G2A2-M2	F16F-S2A2-M5	F16F-R2A2-M5	F16F-R2A2-AM5	F16F-R2J2 (Dual SES) F16F-S2J2 (Single SES)
	 Fibre-Fibre RAID Subsystems 2U 12-Bay	 <i>Single-UPG</i> Fibre-Fibre RAID Subsystem *1 3U 16-Bay	 <i>Redundant</i> Fibre-Fibre RAID Subsystem *1 3U 16-Bay	 <i>Redundant</i> Fibre-Fibre RAID Subsystem with dedicated Sync-Channels *1 3U 16-Bay	 Fibre JBOD Subsystem 3U 16-Bay
Form Factor *3	2U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Channels *6 Hot Swap Trays	2 Channels Fibre 2G <i>Two SFP ports</i> Dual-Loop 12-bay (2G FC-SCA Drives)	2 Channels Fibre 2G <i>Two SFP ports on each channel, total four SFP ports</i> Dual-Loop 16-bay (2G FC-SCA Drives)	2 Channels Fibre 2G <i>Two SFP ports on each channel, total four SFP ports</i> Dual-Loop 16-bay (2G FC-SCA Drives)	2 Channels Fibre 2G <i>Two SFP ports on each channel, total four SFP ports</i> Dual-Loop 16-bay (2G FC-SCA Drives)	2 Channels Fibre 2G <i>Four SFP ports</i> Dual-Loop 16-bay (2G FC-SCA Drives)
Expansion Channels					
Host Channels *6	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports on each controller, total Four SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports on each controller, total four SFP ports</i>	
Redundant Controller *1	-	Single Controller Upgradeable to Redundant	Dual-Controller Redundant	Dual-Controller Redundant with two dedicated sync-channels	JBOD <i>(No RAID Controller)</i> With dual SES Module (R2J2) Or single SES Module (S2J2)
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment				
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), fibre switch support, fabric log-in (supported on fibre-host models), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive" Redundant models: Rolling-firmware-upgrade, auto-sync firmware and configuration on replacement controller				
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>				
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>				
Hot Swap Fan Modules	3	2	2	2	2
Hot Swap Power Supplies	2 x 350 W	2 x 460 W	2 x 460 W	2 x 460 W	2 x 460 W
Cache Memory	256 MB – 1 GB (PC-133 SDRAM)	512 MB – 1 GB (PC-133 SDRAM)	512 MB – 1 GB (PC-133 SDRAM) in Each RAID Controller		-
Battery Backup *4	Optional	Optional	Included x2	Included x2	-

*1 Single-UPG: Single RAID Controller Upgradeable to Redundant.
Redundant: Dual-Redundant Controller configuration
Redundant with dedicated sync-channels: Use two dedicated Fibre channels as redundant controller communication and cache synchronization for enhanced write-back performance.

*2 JBOD models require connecting to a RAID controller or RAID subsystem order to benefit the RAID and management functions.
Single-SES: One SES module is installed.
Dual-SES: Two SES modules are installed to provide redundancy on SES module.

*3 For rack mount kits, please see page of "[Rack Mount Guide](#)".

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)
The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.
In redundant controller configuration, the two controllers should have identical cache memory and battery backup configuration.






*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD. The CD also includes RAIDWatch™ software for RAID management.

*6 Host-side dual-loop is supported by using host-side software from the OS or 3rd party to provide redundant loop and load balancing functions.
Drive-side dual-loop is supported by RAID controller on all models with Fibre drive side. RAID controller provides redundant path and dynamic load balancing on the drive-side channels. (User configurable on ER2510FS series)

*7 SFP modules are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

Fibre-Fibre RAID Subsystems

Variants & Spare Parts

Model	F12F-G2A2-M2	F16F-S2A2-M5	F16F-R2A2-M5	F16F-R2A2-AM5	F16F-R2J2 (Dual SES) F16F-S2J2 (Single SES)
	 Fibre-Fibre RAID Subsystems 2U 12-Bay	 <i>Single-UPG</i> Fibre-Fibre RAID Subsystem *1 3U 16-Bay	 <i>Redundant</i> Fibre-Fibre RAID Subsystem *1 3U 16-Bay	 <i>Redundant</i> Fibre-Fibre RAID Subsystem with dedicated Sync-Channels *1 3U 16-Bay	 Fibre JBOD Subsystem with Dual-SES *2 3U 16-Bay
Controller Module	9272FCM4 (INC x1)	9270FCM4 (INC x1)	9270FCM4 (INC x2)	9270FCM6 (INC x2)	9270FSESM (INC x2 for -R2J2) (INC x1 for -S2J2)
Fan Module	9272CFanMod (INC x3)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)
Power Supply Module	9272CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)
Drive Tray	9272CDTray (INC x12)	9270FDTray (INC x16)	9270FDTray (INC x16)	9270FDTray (INC x16)	9270FDTray (INC x16)
Channel IO Module	-	-	-	-	-
RS-232 Cable	9270ASCab (INC x1)	Not included. Standard DB-9 male RS-232 connector, please use standard DB-9 RS-232 cable.			-
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	-
Fibre SFP *7	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)
Rack Mount Kits (See Rack Mount Guide) *3	9272CESlide36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)
Cache Memory	256 MB PC-133 SDRAM (INC x1) 512 MB and 1GB (OPT)	512 MB PC-133 SDRAM (INC x1) 1GB (OPT)	512 MB PC-133 SDRAM (INC x2) 1GB (OPT)	512 MB PC-133 SDRAM (INC x2) 1GB (OPT)	-
Battery Backup *4	9270FBT (OPT)	9270FBT (OPT)	9270FBT (INC x2)	9270FBT (INC x2)	-
CD, Manual and QIG *5 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC)
Redundant Ctrl. Upgrade Kit	-	9270FCM4 (OPT)	Redundant enabled, no upgrade kit required	Redundant enabled, no upgrade kit required	-

*1 Single-UPG: Single RAID Controller Upgradeable to Redundant.
Redundant: Dual-Redundant Controller configuration
Redundant with dedicated sync-channels: Use two dedicated Fibre channels as redundant controller communication and cache synchronization for enhanced write-back performance.

*2 JBOD models require connecting to a RAID controller or RAID subsystem order to benefit the RAID and management functions.
Single-SES: One SES module is installed.
Dual-SES: Two SES modules are installed to provide redundancy on SES module.

*3 For rack mount kits, please see page of "[Rack Mount Guide](#)".

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

In redundant controller configuration, the two controllers should have identical cache memory and battery backup configuration.

*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD. The CD also includes RAIDWatch™ software for RAID management.



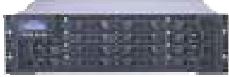



*6 Host-side dual-loop is supported by using host-side software from the OS or 3rd party to provide redundant loop and load balancing functions.

*7 SFP modules are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

SFP module manufacturer and model:
9270CSFP2GA01 Agilent QFBR-5751ALP

Fibre-SATA RAID Subsystems

Product Details

Model	A08F-G1A2-M1	A12F-G1A2-M1	A16F-G1A2-M1	A16F-R1A2-M2 (Redundant) A16F-S1A2-M2 (Single-UPG)	A16F-R1211-M2 (Redundant) A16F-S1211-M2 (Single-UPG)	A16F-J1210-G
						
	Fibre-SATA RAID Subsystem 2U 8-Bay	Fibre-SATA RAID Subsystem 2U 12-Bay	Fibre-SATA RAID Subsystem 3U 16-Bay	Fibre-SATA RAID Subsystem with drive-side expansion *8 3U 16-Bay	Fibre-SATA RAID Subsystem with drive-side expansion and host-side hub function *8 3U 16-Bay	Fibre-SATA JBOD Subsystem 3U 16-Bay
Form Factor *1	2U Rackmount	2U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Channels Hot Swap Trays *2	8 Channels 8-bay (SATA Drives) <i>IDE drives optional</i>	12 Channels 12-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>
Expansions Channels *3	-	-	-	1 Channel Fibre 2G <i>One SFP port on each controller Total two SFP ports (R1A2) or One SFP port (S1A2)</i>	1 Channel Fibre 2G <i>One SFP port on each controller Total two SFP ports (R1211) or One SFP port (S1211)</i>	2 Channels Fibre 2G <i>Two SFP Ports per channel, total four SFP ports</i>
Host Channels *3 *4	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>One SFP ports per channel on each controller Total: four SFP ports (R1A2) or two SFP ports (S1A2)</i>	2 Channels Fibre 2G Built-in Fibre hub function <i>Two SFP ports per channel on each controller Total: Eight SFP ports (R1211) or Four SFP ports (S1211)</i>	
Redundant Controller *5	-	-	-	R1A2: Dual-controller redundant S1A2: Single-controller upgradeable to redundant	R1211: Dual-controller redundant S1211: Single-controller upgradeable to redundant	-
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment					
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), fibre switch support, fabric log-in (supported on fibre-host models), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive" Redundant models: Rolling-firmware-upgrade, auto-sync firmware and configuration on replacement controller					
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>					
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>					
Hot Swap Fan Modules	2	3	2	2	2	2
Hot Swap Power Supplies	2 x 350 W	2 x 350 W	2 x 460 W	2 x 460 W	2 x 460 W	2 x 460 W
Cache Memory *6	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	128MB (PC-133 SDRAM)
Battery Backup *7	-	Optional	Optional	Included (R1A2) Optional (S1A2)	Included (R1211) Included (S1211)	-

*1 For rack mount kits, please see page of "Rack Mount Guide".

*2 IDE drives can be used with optional dongle-boards installed in each drive tray.

*3 SFP modules and Fibre optical cables are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

*4 Host-side dual-loop is supported by using host-side software from the OS or 3rd party to provide redundant loop and load balancing functions.

*5 **Single-UPG:** Single Controller Upgradeable to Dual-Redundant Controller configuration.

Redundant: Dual-redundant controller configuration. "Active-active" redundant RAID controller (can be used as "active-passive")

*6 Supports Infotrend qualified PC-133 ECC SDRAM modules only. Please contact Infotrend for optional memory upgrades.

*7 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.







*8 The drive-side expansion port(s) on A16F-R1A2/S1A2/R1211/S1211 can be used to connect Fibre-SATA JBOD subsystems. **Up to 7 units of A16F-J1210-G can be connected.**

The built-in hub function in A16F-S1211 allows two computers connecting to each host channel without using a Fibre switch. (four SFP connections in total)

The built-in hub function in A16F-R1211 provides four SFP connection per host channel without using a Fibre switch. (Eight SFP connections in total)

Fibre-SATA RAID Subsystems

Variants & Spare Parts

Model	A08F-G1A2-M1	A12F-G1A2-M1	A16F-G1A2-M1	A16F-R1A2-M2 (Redundant) A16F-S1A2-M2 (Single-UPG)	A16F-R1211-M2 (Redundant) A16F-S1211-M2 (Single-UPG)	A16F-J1210-G
	 Fibre-SATA RAID Subsystem 2U 8-Bay	 Fibre-SATA RAID Subsystem 2U 12-Bay	 Fibre-SATA RAID Subsystem 3U 16-Bay	 Fibre-SATA RAID Subsystem with drive-side expansion *8 3U 16-Bay	 Fibre-SATA RAID Subsystem with drive-side expansion and host-side hub function *8 3U 16-Bay	 Fibre-SATA JBOD Subsystem 3U 16-Bay
Controller Module	9272AFGCM08 (INC x1)	9272AFGCM12 (INC x1)	9270AFGCM (INC x1)	9270AFRCM (R1A2: INC x2; S1A2: INC X1)	80AF12RC16 (R1211: INC x2; S1211: INC X1)	80AF12JC16 (INC x1)
Fan Module	9272CFanMod (INC x2)	9272CFanMod (INC x3)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)
Power Supply Module	9272CPSU (INC x2)	9272CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)
Drive Tray	9272CDTray (INC x8)	9272CDTray (INC x12)	9270CDTray (INC x16)	9270ADT2S1S (R1A2: INC x16) 9270ADT1S1S (S1A2: INC x16)	9270ADT2S1S (R1211: INC x16) 9270ADT1S1S (S1211: INC x16)	9272CDTray (INC x16)
Dongle Board for IDE Drive *1	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P (OPT)	-	-	9270AN1S1P (OPT)
RS-232 Cable	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	-
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	-
Fibre Optical Cable (External) *2	- (OPT)	- (OPT)	- (OPT)	- (OPT)	- (OPT)	- (OPT)
SFP Module *2	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)
Rack Mount Kits *3 (See Rack Mount Guide)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)
Cache Memory *4	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (R1A2: INC x2; S1A2: INC X1) 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (R1211: INC x2; S1211: INC X1) 512 MB and 1GB (OPT)	128 MB SDRAM (INC x1)
Battery Backup *5	-	9270ABT (OPT)	9270ABT (OPT)	9270ABT (R1A2: INC x2; S1A2: OPT)	9270ABT (R1211: INC x2; S1211: INC x1)	-
CD, Manual & QIG *6 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC)
Redundant Controller Upgrade Kit *7	-	-	-	9270AFSUPKIT (Optional for S1A2 only)	80AF12RC16-M2 (x1) + 9270AN2S1S (x16) (Optional for S1211 only)	-

*1 IDE drives can be used with optional dongle-boards installed in each drive tray.

*2 SFP modules and Fibre optical cables are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

*3 For rack mount kits, please see page of "Rack Mount Guide".

*4 Supports Infotrend qualified PC-133 ECC SDRAM modules only. Please contact Infotrend for optional memory upgrades.

*5 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.






*6 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD.
The CD also includes RAIDWatch™ software for RAID management.

*7 **Single-UPG:** Single Controller Upgradeable to Dual-Redundant Controller configuration.

Redundant: Dual-redundant controller configuration. "Active-active" redundant RAID controller (can be used as "active-passive")

*8 The drive-side expansion port(s) on A16F-R1A2/S1A2/R1211/S1211 can be used to connect Fibre-SATA JBOD subsystems. **Up to 7 units of A16F-J1210-G can be connected.**

The built-in hub function in A16F-S1211 allows two computers connecting to each host channel without using a Fibre switch. (four SFP connections in total)
The built-in hub function in A16F-R1211 provides four SFP connection per host channel without using a Fibre switch. (Eight SFP connections in total)

	iSCSI RAID Storage	Fibre - SATA II RAID Subsystems			Product Details
Model	New A12E-G2121-25  iSCSI – SATA II RAID Subsystem 12-Bay	New A08F-G2221-M2  Fibre – SATA II RAID Subsystem 2U 8-Bay	New A12F-G2221-M2  Fibre – SATA II RAID Subsystem 2U 12-Bay	New A16F-G2221-M2  Fibre – SATA II RAID Subsystem 3U 16-Bay	New A16F-R2221-M2  Fibre – SATA II Redundant Controllers RAID Subsystem 3U 16-Bay
Form Factor *1	2U Rackmount	2U Rackmount	2U Rackmount	3U Rackmount	3U Rackmount
Drive Channels Hot Swap Trays *2	12 Channels 12-bay (SATA I - II Drives) <i>IDE drives optional</i>	8 Channels 8-bay (SATA I - II Drives) <i>IDE drives optional</i>	12 Channels 12-bay (SATA I - II Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA I - II Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA I - II Drives) <i>IDE drives optional</i>
Expansions Channels	-	-	-	-	-
Host Channels *3	2 Channels Gigabit Ethernet <i>Two RJ-45 ports</i>	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports</i>	2 Channels Fibre 2G <i>Two SFP ports on chassis</i> (Fibre cable connections remain intact when exchanging the RAID controller module)	2 Channels Fibre 2G <i>Four SFP Ports on chassis</i> (Fibre cable connections remain intact when exchanging the RAID controller module)
Redundant Controller	-	-	-	-	Redundant Controller Enabled
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment				
Advanced Functions	The same as RAID subsystems, plus CHAP and other iSCSI related functions. (Refer to brochure)		Host-side redundant path and load balancing supported (3rd party software required in the host computers), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive"		
Management	The same as RAID subsystems, no LCD front panel.		LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>		
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>				
Hot Swap Fan Modules	3	2	3	2	2
Hot Swap Power Supplies	2 x 350 W	2 x 350 W	2 x 350 W	2 x 460 W	2 x 460 W
Cache Memory *4	512 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)
Battery Backup *5	Optional	Optional	Optional	Optional	Optional

*1 For rack mount kits, please see page of "Rack Mount Guide".

*2 IDE drives can be used with optional dongle-boards installed in each drive tray.

Both SATA I (with or without NCQ) and SATA II drives can be used in SCSI – SATA II and Fibre – SATA II RAID subsystem models.

*3 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

*4 Please note the different memory module types used in different RAID subsystem models:






PC-3200 ECC DDR400: A08F-G2221, A12F-G2221, A16F-G2221, A16F-R2221 (And all other Infotrend ASIC-266 based RAID controllers and RAID subsystems)

Please contact Infotrend for optional memory upgrades.

*5 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

9273CBT-C is a field replaceable module which is independent from the RAID controller module. It can be exchanged with the RAID controller remaining in the chassis.

	iSCSI RAID Storage	Fibre - SATA II RAID Subsystems			Variants & Spare Parts
Model	New A12E-G2121-25  iSCSI – SATA II RAID Subsystem 12-Bay	New A08F-G2221-M2  Fibre – SATA II RAID Subsystem 2U 8-Bay	New A12F-G2221-M2  Fibre – SATA II RAID Subsystem 2U 12-Bay	New A16F-G2221-M2  Fibre – SATA II RAID Subsystem 3U 16-Bay	New A16F-R2221-M2  Fibre – SATA II Redundant Controllers RAID Subsystem 3U 16-Bay
Controller Module	82AE21GD12-25 (INC x1)	82AF22GD08-M2 (INC x1)	82AF22GD12-M2 (INC x1)	83AF22GD16-M2 (INC x1)	83AF22RD16C-M2 (INC x1)
Fan Module	9272CFanModE (INC x3)	9272CFanModE (INC x2)	9272CFanModE (INC x3)	9273CFanMod (INC x2)	9273CFanMod (INC x2)
Power Supply Module	9272CPSU-0011 (INC x2)	9272CPSU-0011 (INC x2)	9272CPSU-0011 (INC x2)	9273CPSU (INC x2)	9273CPSU (INC x2)
Drive Tray	9273CDTray (INC x12)	9273CDTray (INC x8)	9273CDTray (INC x12)	9273CDTray (INC x16)	9273ADT2S1S (INC x16)
Dongle Board for IDE Drive *1	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)
RS-232 Cable	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)
Fibre SFP *2	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)	9270CSFP2GA01 (OPT)
Fibre Optical Cable *3	(OPT)	(OPT)	(OPT)	(OPT)	(OPT)
Rack Mount Kits *4 (See Rack Mount Guide)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9273CSlider36 (OPT)	9273CSlider36 (OPT)
Cache Memory *5	512MB PC-3200 DDR400 (INC x1) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)
Battery Backup *6	9273CBT-C (OPT)	9273CBT-C (OPT)	9273CBT-C (OPT)	9273CBT-C (OPT)	9273CBT-C (OPT)
CD, Manual & QIG *7 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)
Redundant Controller Upgrade Kit	-	-	-	-	Redundant enabled, no upgrade kit required

*1 IDE drives can be used with optional dongle-boards installed in each drive tray.

Both SATA I (with or without NCQ) and SATA II drives can be used in SCSI – SATA II and Fibre – SATA II RAID subsystem models.

*2 SFP module manufacturer and model:
9270CSFP2GA01 Agilent QFBR-5751ALP

*3 SFP modules and Fibre optical cables are not included. To ensure the signal quality for 2G Fibre, we recommend to use SFP module with LC optical connection.

*4 For rack mount kits, please see page of “**Rack Mount Guide**”.

*5 Please note the different memory module types used in different RAID subsystem models:

PC-3200 ECC DDR400: A08F-G2221, A12F-G2221, A16F-G2221, A16F-R2221 (And all other Infortrend ASIC-266 based RAID controllers and RAID subsystems)

Please contact Infortrend for optional memory upgrades.

*6 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

9273CBT-C is a hot-swappable battery module, which can be exchanged without removing the RAID controller from the chassis.

*7 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD.

The CD also includes RAIDWatch™ software for RAID management.

SCSI-SATA RAID Subsystems							Product Details
Model	A08U-G1A3-M1	A08U-G1410-M1	A12U-G1A3-M1	A12U-G1410-M1	A16U-G1A3-M1	A16U-G1410-M1	
	U160 SCSI-SATA RAID Subsystem 2U 8-Bay	U320 SCSI-SATA RAID Subsystem 2U 8-Bay	U160 SCSI-SATA RAID Subsystem 2U 12-Bay	U320 SCSI-SATA RAID Subsystem 2U 12-Bay	U160 SCSI-SATA RAID Subsystem 3U 16-Bay	U320 SCSI-SATA RAID Subsystem 3U 16-Bay	
Form Factor *1	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount	3U Rackmount	3U Rackmount	
Drive Channels Hot Swap Trays *2	8 Channels 8-bay (SATA Drives) <i>IDE drives optional</i>	8 Channels 8-bay (SATA Drives) <i>IDE drives optional</i>	12 Channels 12-bay (SATA Drives) <i>IDE drives optional</i>	12 Channels 12-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA Drives) <i>IDE drives optional</i>	
Expansions Channels	-	-	-	-	-	-	
Host Channels *3	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI ports</i>	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI Ports</i>	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI Ports</i>	
Redundant Controller *4	-	-	-	-	-	-	
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment						
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive"						
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>						
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>						
Hot Swap Fan Modules	2	2	3	3	2	2	
Hot Swap Power Supplies	2 x 350 W	2 x 350 W	2 x 350 W	2 x 350 W	2 x 460 W	2 x 460 W	
Cache Memory *5	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	
Battery Backup *6	-	-	Optional	Optional	Optional	Optional	

*1 For rack mount kits, please see page of "Rack Mount Guide".

*2 IDE drives can be used with optional dongle-boards installed in each drive tray.

*3 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

*4 All SCSI-SATA RAID subsystems are equipped with single RAID controller. If redundant RAID controller function is required, please choose EonStor™ Fibre-SATA RAID Subsystems.





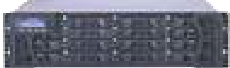
*5 Supports Infotrend qualified PC-133 ECC SDRAM modules only. Please contact Infotrend for optional memory upgrades.

*6 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

SCSI-SATA RAID Subsystems

Variants & Spare Parts

Model	A08U-G1A3-M1	A08U-G1410-M1	A12U-G1A3-M1	A12U-G1410-M1	A16U-G1A3-M1	A16U-G1410-M1
	 U160 SCSI-SATA RAID Subsystem 2U 8-Bay	 U320 SCSI-SATA RAID Subsystem 2U 8-Bay	 U160 SCSI-SATA RAID Subsystem 2U 12-Bay	 U320 SCSI-SATA RAID Subsystem 2U 12-Bay	 U160 SCSI-SATA RAID Subsystem 3U 16-Bay	 U320 SCSI-SATA RAID Subsystem 3U 16-Bay
Controller Module	9272AUGCM08 (INC x1)	82AU14GC08 (INC x1)	9272AUGCM12 (INC x1)	82AU14GC12 (INC x1)	9270AUGCM (INC x1)	80AU14GC16 (INC x1)
Fan Module	9272CFanMod (INC x2)	9272CFanMod (INC x2)	9272CFanMod (INC x3)	9272CFanMod (INC x3)	9270CFanMod (INC x2)	9270CFanMod (INC x2)
Power Supply Module	9272CPSU (INC x2)	9272CPSU (INC x2)	9272CPSU (INC x2)	9272CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)
Drive Tray	9272CDTray (INC x8)	9272CDTray (INC x8)	9272CDTray (INC x12)	9272CDTray (INC x12)	9270CDTray (INC x16)	9270CDTray (INC x16)
Dongle Board for IDE Drive *7	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P (OPT)	9270AN1S1P (OPT)
RS-232 Cable	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)
SCSI Cable (External) *1	9270UHstCab (INC x1) 9270UJBODCab (OPT)	9270UHstCab (INC x1) 9270UJBODCab (OPT)	9270UHstCab (INC x1) 9270UJBODCab (OPT)	9270UHstCab (INC x1) 9270UJBODCab (OPT)	9270UHstCab (INC x1) 9270UJBODCab (OPT)	9270UHstCab (INC x1) 9270UJBODCab (OPT)
SCSI Terminator (External) *1	-	-	-	-	-	-
Rack Mount Kits *2 (See Rack Mount Guide)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)
Cache Memory *3	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)
Battery Backup *4	-	-	9270ABT (OPT)	9270ABT (OPT)	9270ABT (OPT)	9270ABT (OPT)
CD, Manual & QIG *5 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)
Redundant Controller Upgrade Kit *6	-	-	-	-	-	-

*1 For SCSI-SATA EonStor™ RAID subsystems, one external SCSI cable is included. The subsystem has built-in SCSI terminators, no external SCSI terminator is included (not required).

Optional external SCSI cables: (U160/U320 ready)
9270UHstCab VHDCI-HD68, 1 meter
9270UJBODCab VHDCI-VHDCI, 1 meter

*2 For rack mount kits, please see page of "Rack Mount Guide".

*3 Supports Infotrend qualified PC-133 ECC SDRAM modules only. Please contact Infotrend for optional memory upgrades.

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.





*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD.

The CD also includes RAIDWatch™ software for RAID management.

*6 All SCSI-SATA RAID subsystems are equipped with single RAID controller. If redundant RAID controller function is required, please choose EonStor™ Fibre-SATA RAID Subsystems.

*7 IDE drives can be used with optional dongle-boards installed in each drive tray.

*8 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

SCSI - SATA II RAID Subsystems		Product Details			
Model	A08U-C2410-M1	New A08U-G2421-M2	New A12U-G2421-M2	New A16U-G2421-M2	
	 <p>SCSI 320 – SATA II Tower / Desktop RAID Subsystem 8-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 2U 8-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 2U 12-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 3U 16-Bay</p>	
Form Factor *1	Tower / Desktop (Convertible)	2U Rackmount	2U Rackmount	3U Rackmount	
Drive Channels Hot Swap Trays *2	8 Channels 8-bay (SATA I - II Drives) <i>IDE drives optional</i>	8 Channels 8-bay (SATA I - II Drives) <i>IDE drives optional</i>	12 Channels 12-bay (SATA I – II Drives) <i>IDE drives optional</i>	16 Channels 16-bay (SATA I - II Drives) <i>IDE drives optional</i>	
Expansions Channels	-	-	-	-	
Host Channels *3	2 Channels SCSI-320 <i>Four VHDCI ports (in/out ports for each channel)</i>	2 Channels SCSI-320 <i>Four VHDCI ports (in/out ports for each channel)</i>	2 Channels SCSI-320 <i>Four VHDCI ports (in/out ports for each channel)</i>	2 Channels SCSI-320 <i>Four VHDCI ports (in/out ports for each channel)</i>	
Redundant Controller *4	-	-	-	-	
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment				
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive"				
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>				
Management via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>				
Hot Swap Fan Modules	2	2	3	2	
Hot Swap Power Supplies	2 x 250 W	2 x 350 W	2 x 350 W	2 x 460 W	
Cache Memory *5	128 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)	256 MB – 1 GB (PC-3200 DDR400)	
Battery Backup *6	Optional	Optional	Optional	Optional	

*1 For rack mount kits, please see page of "Rack Mount Guide".

The A08U-C2410 is a RAID subsystem designed to stand-up vertically as a tower subsystem, or placed horizontally as a desktop subsystem. User can decide to use it as a tower or desktop RAID. The front panel LCD can also easily be changed between vertical and horizontal position accordingly.

*2 IDE drives can be used with optional dongle-boards installed in each drive tray.

Both SATA I (with or without NCQ) and SATA II drives can be used in SCSI – SATA II and Fibre – SATA II RAID subsystem models.

*3 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

The SCSI 320 – SATA II models all equipped with two SCSI-320 (Ultra320 SCSI) host channels, each host channel has two VHDCI SCSI connector ports (in/out ports). This design provides an easier way of chaining multiple RAID units to the same SCSI bus, with VHDCI-VHDCI external SCSI cable (9270UJBODCab).

*4 All SCSI 320 – SATA II RAID subsystems are equipped with single RAID controller. If redundant RAID controller function is required, please choose EonStor™ Fibre - SATA RAID Subsystems with Redundant Controllers equipped.

*5 Please note the different memory module types used in different RAID subsystem models:

PC-133 ECC SDRAM: A08U-C2410 (And all other Infortrend ASIC-133 based RAID controllers and RAID subsystems)

PC-3200 ECC DDR400: A08U-G2421, A12U-G2421, A16U-G2421 (And all other Infortrend ASIC-266 based RAID controllers and RAID subsystems)
Please contact Infortrend for optional memory upgrades.





*6 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

9273CBT-C is a field replaceable module which is independent from the RAID controller module. It can be exchanged with the RAID controller remaining in the chassis.

SCSI - SATA II RAID Subsystems

Variants & Spare Parts

Model	New A08U-C2410-M1	New A08U-G2421-M2	New A12U-G2421-M2	New A16U-G2421-M2
	 <p>SCSI 320 – SATA II Tower / Desktop RAID Subsystem 8-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 2U 8-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 2U 12-Bay</p>	 <p>SCSI 320 – SATA II RAID Subsystem 3U 16-Bay</p>
Controller Module	81AU24GC08-M1 (INC x1)	82AU24GD08-M2 (INC x1)	82AU24GD12-M2 (INC x1)	83AU24GD16-M2 (INC x1)
Fan Module	9271CFanMod (INC x2)	9272CFanModE (INC x2)	9272CFanModE (INC x3)	9273CFanMod (INC x2)
Power Supply Module	9271CPSU (INC x2)	9272CPSU-0011 (INC x2)	9272CPSU-0011 (INC x2)	9273CPSU (INC x2)
Drive Tray	9273CDTray (INC x8)	9273CDTray (INC x8)	9273CDTray (INC x12)	9273CDTray (INC x16)
Dongle Board for IDE Drive *7	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)
RS-232 Cable	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)	9270ASCab (INC x1)
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)
SCSI Cable (External) *1	9270UJBODCab (INC x1) 9270UHstCab (OPT)	9270UJBODCab (INC x1) 9270UHstCab (OPT)	9270UJBODCab (INC x1) 9270UHstCab (OPT)	9270UJBODCab (INC x1) 9270UHstCab (OPT)
SCSI Terminator (External) *1	-	-	-	-
Rack Mount Kits *2 (See Rack Mount Guide)	-	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9270CenBrk 9273CSlider36 (OPT)
Cache Memory *3	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB SDRAM (OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)	256 MB PC-3200 DDR400 (INC x1) DDRESCM5 (512MB, OPT) DDRESCMA (1GB, OPT)
Battery Backup *4	9070E + 9271CBT (OPT)	9273CBT-C (OPT)	9273CBT-C (OPT)	9273CBT-C (OPT)
CD, Manual & QIG *5 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)
Redundant Controller Upgrade Kit *6	-	-	-	-

*1 For SCSI-SATA EonStor™ RAID subsystems, one external SCSI cable is included. The subsystem has built-in SCSI terminators, no external SCSI terminator is included (not required).

Optional external SCSI cables: (SCSI-160 / SCSI-320 ready)

9270UHstCab VHDCI-HD68, 1 meter

9270UJBODCab VHDCI-VHDCI, 1 meter

*2 For rack mount kits, please see page of "Rack Mount Guide".

The A08U-C2410 comes with four "feet" which can be used for both Tower or Desktop installations.

The A08U-C2410 is a RAID subsystem designed to stand-up vertically as a tower subsystem, or placed horizontally as a desktop subsystem. User can decide to use it as a tower or desktop RAID. The front panel LCD can also easily be changed between vertical and horizontal position accordingly.

*3 Please note the different memory module types used in different RAID subsystem models:

PC-133 ECC SDRAM: A08U-C2410 (And all other Infotrend ASIC-133 based RAID controllers and RAID subsystems)

PC-3200 ECC DDR400: A08U-G2421, A12U-G2421, A16U-G2421 (And all other Infotrend ASIC-266 based RAID controllers and RAID subsystems)

Please contact Infotrend for optional memory upgrades.

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or hard drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

9273CBT-C is a field replaceable module which is independent from the RAID controller module. It can be exchanged with the RAID controller remains in the chassis.

*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD.

The CD also includes RAIDWatch™ software for RAID management.

*6 All SCSI-SATA RAID subsystems are equipped with single RAID controller. If redundant RAID controller function is required, please choose EonStor™ Fibre-SATA RAID Subsystems.






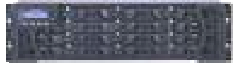

*7 IDE drives can be used with optional dongle-boards installed in each drive tray.

Both SATA I (with or without NCQ) and SATA II drives can be used in SCSI – SATA II and Fibre – SATA II RAID subsystem models.

*8 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

SCSI RAID Subsystems

Product Details

Model	U12U-G3A3-M1	U12U-G4010-M1	U16U-G3A3-4M2	U16U-G4010-42	U16U-G3A3-6M2	U16U-G4010-62	U16U-G3J3
 SCSI-SCSI RAID Subsystem 2U 12-Bay	 U320 SCSI-SCSI RAID Subsystem 2U 12-Bay	 SCSI-SCSI RAID Subsystem 3U 16-Bay	 U320 SCSI-SCSI RAID Subsystem 3U 16-Bay	 SCSI-SCSI RAID Subsystem with drive-side expansion *2 3U 16-Bay	 U320 SCSI-SCSI RAID Subsystem with drive-side expansion *2 3U 16-Bay	 U160/U320 SCSI JBOD Subsystem *2 3U 16-Bay	
Form Factor *1	2U Rackmount	2U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount	3U Rackmount
Drive Channels Hot Swap Trays	2 Channels SCSI U160 12-bay (SCSI SCA Drives)	2 Channels SCSI U320 12-bay (SCSI SCA Drives)	2 Channels SCSI U160 16-bay (SCSI SCA Drives)	2 Channels SCSI U320 16-bay (SCSI SCA Drives)	2 Channels SCSI U160 16-bay (SCSI SCA Drives)	2 Channels SCSI U320 16-bay (SCSI SCA Drives)	2 Channels SCSI U160/U320 16-bay (SCSI SCA Drives) <i>Two VHDCI ports</i>
Expansion Channels	-	-	-	-	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI ports</i>	
Host Channels *3	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI ports</i>	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI ports</i>	2 Channels SCSI U160 <i>Two VHDCI ports</i>	2 Channels SCSI U320 <i>Two VHDCI ports</i>	
Redundant Controller	-	-	-	-	-	-	JBOD *2 (No RAID Controller)
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, Instant RAID Ready, LD configuration on disks, Dynamic host LUN mappings Each LD/LV > 2TB (Up to 64TB), Automatically Background Rebuild, Automatic Bad Block Reassignment						
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), fibre switch support, fabric log-in (supported on fibre-host models), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive" Redundant models: Rolling-firmware-upgrade, auto-sync firmware and configuration on replacement controller						
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>						
Mgmt. via Built-in LAN	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>						
Hot Swap Fan Modules	3	3	2	2	2	2	2
Hot Swap Power Supplies	2 x 350 W	2 x 350 W	2 x 460 W	2 x 460 W	2 x 460 W	2 x 460 W	2 x 460 W
Cache Memory	128 MB – 1 GB (PC-133 SDRAM)	128 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	256 MB – 1 GB (PC-133 SDRAM)	-
Battery Backup *4	Optional	Optional	Optional	Optional	Optional	Optional	-

*1 For rack mount kits, please see page of "Rack Mount Guide".

*2 JBOD (Just-a-Bunch-Of-Disks) subsystem requires connecting to a RAID subsystem (or RAID controller) in order to benefit the RAID and management functions.

The U16U-G3J3 SCSI JBOD is compliant with U160 / U320 SCSI, either U160 or U320 SCSI disks can be used. The U16U-G3J3 is designed to be used with U16U-G3A3-6M2 and U16U-G4010-62.

*3 Host-side load balancing and redundant path functions are supported by using host-side software from the OS or 3rd party. (not included)

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

For U16U and U12U series: A battery charger board (9070E) is required for U16U and U12U series, when battery backup option is taken. The battery module (9270UBT) requires the charger board (9070E) in order to recharge the battery.

SCSI RAID Subsystems

Variants & Spare Parts

Model	U12U-G3A3-M1	U12U-G4010-M1	U16U-G3A3-4M2	U16U-G4010-42	U16U-G3A3-6M2	U16U-G4010-62	U16U-G3J3	
	SCSI-SCSI RAID Subsystem 2U 12-Bay	U320 SCSI-SCSI RAID Subsystem 2U 12-Bay	SCSI-SCSI RAID Subsystem 3U 16-Bay	U320 SCSI-SCSI RAID Subsystem 3U 16-Bay	SCSI-SCSI RAID Subsystem with drive-side expansion *2 3U 16-Bay	U320 SCSI-SCSI RAID Subsystem with drive-side expansion *2 3U 16-Bay	SCSI JBOD Subsystem *2 3U 16-Bay	
Controller Module	9272UCM4 (INC x1)	82U40GC4 (INC x1)	9270UCM4 (INC x1)	80U40GC4 (INC x1)	9270UCM6 (INC x1)	80U40GC6 (INC x1)	-	
Fan Module	9272CFanMod (INC x3)	9272CFanMod (INC x3)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	9270CFanMod (INC x2)	
Power Supply Module	9272CPSU (INC x2)	9272CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	9270CPSU (INC x2)	
Drive Tray	9272CDTray (INC x12)	9272CDTray (INC x12)	9270CDTray (INC x16)	9270CDTray (INC x16)	9270CDTray (INC x16)	9270CDTray (INC x16)	9270CDTray (INC x16)	
RS-232 Cable	9270ASCab (INC x1)	9270ASCab (INC x1)	Not included. Standard DB-9 male RS-232 connector, please use standard DB-9 RS-232 cable.				-	-
RS-232 Null Modem	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	9011 (INC x1)	-	
SCSI Cable (External) *1	9270UHstCab (INC x1)	9270UHstCab (INC x1)	9270UHstCab (INC x1)	9270UHstCab (INC x1)	9270UHstCab (INC x1)	9270UHstCab (INC x1)	9270UJBODCab (INC x1)	
SCSI Terminator (External) *1	-	-	-	-	-	-	-	
Rack Mount Kits *3 (See Rack Mount Guide)	9272CESlide36 (OPT)	9272CESlide36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	9270CEncBrk 9270CSlider36 (OPT)	
Cache Memory	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	128 MB PC-133 SDRAM (INC x1) 256 MB, 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (INC x1) 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (INC x1) 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (INC x1) 512 MB and 1GB (OPT)	256 MB PC-133 SDRAM (INC x1) 512 MB and 1GB (OPT)	-	
Battery Backup *4	9070E + 9270UBT (OPT)	9070E + 9270UBT (OPT)	9070E + 9270UBT (OPT)	9070E + 9270UBT (OPT)	9070E + 9270UBT (OPT)	9070E + 9270UBT (OPT)	-	
CD, Manual and QIG *5 (Quick Installation Guide)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC) CD (INC)	QIG (INC)	

*1 For SCSI-SCSI EonStor™ RAID subsystems, an external SCSI cable – 9270UHstCab is included (VHDCI-HD68, 1 meter length)

For SCSI JBOD subsystem (U16U-G3J3), an external SCSI cable – 9270UJBODCab is included (VHDCI-VHDCI, 1 meter length).

In order to connect U16U-G3J3 to U16U-G3A3-6M2, two 9270JBODCab are required. (one is included)

The EonStor systems has built-in SCSI terminators, no external SCSI terminator is included (not required).

Optional external SCSI cables: (U160/U320 ready)

9270UHstCab VHDCI-HD68, 1 meter

9270UJBODCab VHDCI-VHDCI, 1 meter

*3 For rack mount kits, please see page of “Rack Mount Guide”.

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack used, cached data will be kept for around 72 hours. (Estimated time based on using 512MB SDRAM memory module)

The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

In redundant controller configuration, the two controllers should have identical cache memory and battery backup configuration.

For U16U and U12U series: A battery charger board (9070E) is required for U16U and U12U series, when battery backup option is taken. The battery module (9270UBT) requires the charger board (9070E) in order to recharge the battery.





*5 The manuals are provided in PDF format, in the CD included. The Quick Installation Guide provides basic information to get the system to work. All detailed functions and settings please refer to the manual files in the CD.

The CD also includes RAIDWatch™ software for RAID management.

*2 JBOD models require connecting to a RAID controller or RAID subsystem order to benefit the RAID and management functions.

SCSI-SCSI, Fibre-SCSI RAID Controllers – SentinelRAID™

Product Details and Options

	SR150F	SR170	SR2700	SR2500FR1
Model	 SCSI-SCSI RAID Controller	 SCSI-320 – SCSI-320 RAID Controller	 SCSI-320 – SCSI-320 / Fibre – SCSI-320 RAID Controller	 SCSI-SCSI Redundant RAID Controller
Form Factor	5.25" Half Height	5.25" Half Height	5.25" Half Height	5.25" Full Height
Base Channels <i>*2</i>	4 Channels SCSI-160 <i>Four standard 68-pin high-density connectors</i>	4 Channels SCSI-320 <i>Four standard 68-pin high-density connectors</i>	4 Channels SCSI-320 <i>Four standard 68-pin high-density connectors</i>	3 Channels SCSI-160 <i>Three standard 68-pin high-density connectors</i>
Add-on Channels (Optional Daughter Board) <i>*2</i>	4 Channels SCSI-160 <i>Four standard 68-pin high-density connectors (9284FU3A)</i>	4 Channels SCSI-320 <i>Four standard 68-pin high-density connectors (9284U4A)</i>	4 Channels SCSI-320 <i>Four standard 68-pin high-density connectors (9284U4 + 9288FB4 + 9515)</i> OR 2 Channels Fibre 2G <i>Two optical LC connectors (9282FF2 + 9288FB2F2) *5</i>	-
Redundant Controller	Supported <i>Requires connections with another SR150F (9535)</i>	-	-	Supported <i>Two integrated controller modules built-in (top-bottom) No additional controller required</i>
Hot-Swap Controller Docking Connectors <i>*3</i>	-	-	Yes	Yes
RAID Function	RAID 0, 1, (0+1), 3, 5, 10, 30, 50 with Local Spare and Global Spare Drives Multiple RAID Logical Drives (LD), Multiple Logical Volumes (LV), Multiple Partitions, Multiple Host IDs, Multiple Host LUNs, LD configuration on disks, Dynamic host LUN mappings Automatically Background Rebuild, Automatic Bad Block Reassignment			
Advanced Functions	Host-side redundant path and load balancing supported (3rd party software required in the host computers), fibre switch support, fabric log-in (supported on fibre-host models), background firmware download Dual-mode RAID expansions: "Add-in Drive" and "Copy & Replace with larger drive" Redundant models: Rolling-firmware-upgrade, auto-sync firmware and configuration on replacement controller			
Management	LCD front panel: <i>Easy-to-use menu for accessing all functions and features.</i> RS-232 Terminal: <i>User friendly menu-driven for accessing all functions and features.</i> RAIDWatch™ java-based cross-platform central management software <i>included, providing: Central management, remote / local management (in-band or out-of-band), event notifications (via e-mail, SNMP trap, fax, network broadcast – with full plain-text event message and pager).</i>			
Management via Built-in LAN Port	-	RAIDWatch™-onboard: <i>Open browser to link to the RAID unit via built-in LAN port.</i> Telnet-terminal: <i>Access terminal menu by telnet via built-in LAN port.</i> Notification-onboard: <i>RAID unit itself issue e-mail and SNMP traps for event notifications (with full plain-text event messages)</i>		-
Cache Memory	128 MB, 256 MB, 512 MB and 1GB PC-133 SDRAM (Not Included)			
Battery Backup <i>*4</i>	Optional (<i>Battery charger board and first battery pack: 9070D + 9010D; second battery pack: 9010D; battery extension cable 9519D</i>)			

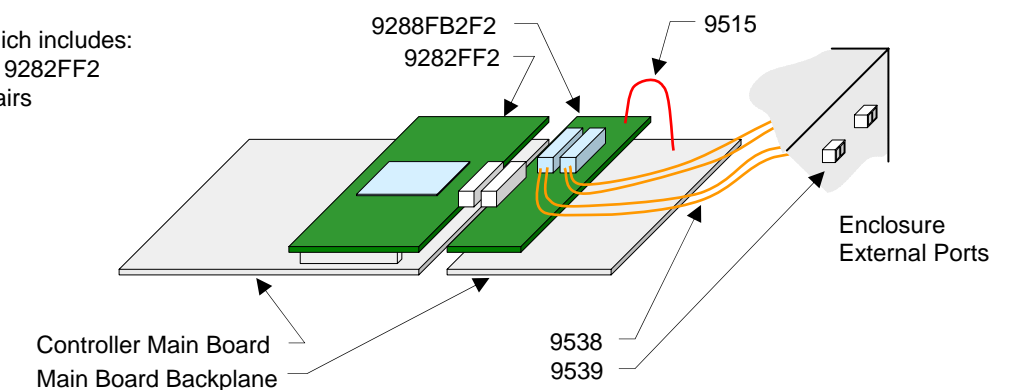
*1 SR2500FR5 and SR2500FR6 can be fit into a 1U rackmount enclosure. SR2500FR5 and SR2500FR6 do not include power supply or rackmount enclosure/chassis.

*2 All channels (base channels and additional channels) can be configured as Host channel or Drive channel by user.

*3 Hot-Swap Controller Docking Connectors provide the ease of controller maintenance – removing the controller board without the need of opening the enclosure or disconnecting any SCSI/Fibre/power/RS-232 cables.
The hot-swap drive is supported on all SentinelRAID controllers. (which is not related to the controller docking connectors)

*4 Battery backup provides power to cache memory when power fails. The unwritten write-back cached data will be kept in the cache memory with power providing from the battery. With one fully charged battery pack (9010D) used, cached data will be kept for 72 hours.
A second battery (9010D) can be connected (connecting to the first battery pack) for longer. The battery extension cable (9519D) can be used in between the battery pack and RAID controller, when the location of the battery cannot be close to the RAID controller in the enclosure.
The battery is not able to provide the power for RAID controller or drives to operate when the power fails. Please use UPS (uninterruptible power supply) if it is required for the entire RAID system to work during the power failure.

*5 9282FF2: 2 Channel 2G FC Daughter Board
9288FB2F2: The backplane for 9282FF2
The 9288FB2F2 is now available as a kit, which includes:
9282FB2F2 daughter board backplane for 9282FF2
9538 2G FC optical-LC cables, 2 pairs
9539 LC duplex adapters, 2 pcs
9515 5V auxiliary cable



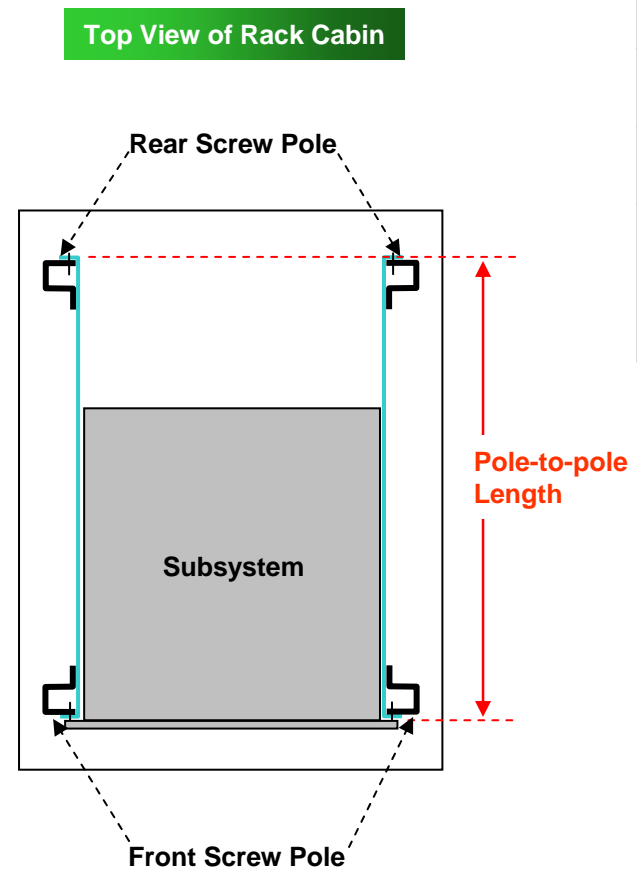
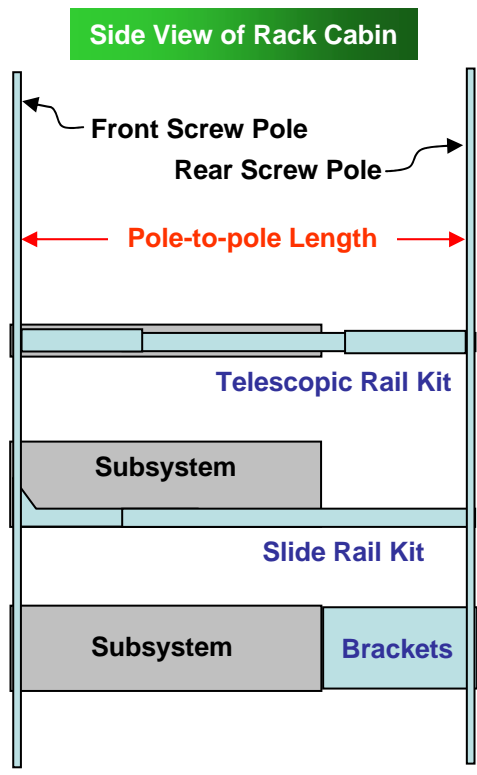
Rack Mount Kits for Rack Mount Subsystems

Rack Mount Guide

Models	9253L20 - 0011	9272CESlide36	9273CSlider36	9270CEncBrk	9270CSlider36
	Telescopic Rail Kit	Slide Rail Kit	Slide Rail Kit	Brackets	Slide Rail Kit
EonRAID™ 2510FS Fibre Controller Head *1	<input checked="" type="checkbox"/>	-	-	-	-
EonStor™ 2U 8 / 12 -Bay A08U / A12U / A08F / A12F / A12E / U12U / F12F	-	<input checked="" type="checkbox"/>	-	-	-
EonStor™ 3U 16-Bay A16U-G1A3, A16U-G1410, A16F-G1A2, A16F-R1A2, A16F-R1211 A16F-J1210, U16U-G3J3, U16U-G3A3, U16U-G4010, F16F-S2A2 F16F-R2A2, F16F-R2A2-A, F16F-S2J2, F16F-R2J2	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EonStor™ 3U 16-Bay (New Chassis) A16U-G2421, A16F-G2221, A16F-R2221	-	-	<input checked="" type="checkbox"/>	-	-
Minimum Length (Pole-to-pole) *2	511 mm (20.11 inches)	647 mm (25.47 inches)	647 mm (25.47 inches)	609 mm (24 inches)	600 mm (23.62 inches)
Maximum Length (Pole-to-pole) *2	717 mm (28.22 inches)	914 mm (35.98 inches)	914 mm (35.98 inches)	812 mm (32 inches)	910 mm (35.82 inches)

*1 The 9253L20-0011 is a revised version from 9253L20. It supports ER2510FS series and 6300 / 6330 series RAID Subsystems.

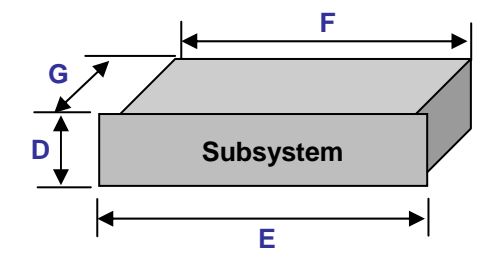
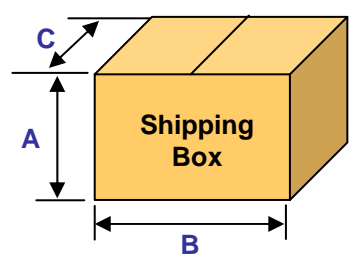
*2 The "pole-to-pole" length is referring to the distance between the front screw hole pole (post) to the rear screw hole pole (post) in a rack cabin. A typical 900mm rack cabin often has pole-to-pole length of around 670 mm, and 800mm rack has around 615 mm.



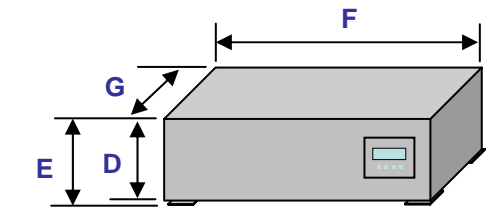
	Shipping Dimensions & Weights					Subsystem Dimensions & Weights					
	A	B	C	W1 *3	W2 *3	D	E	F	G *4	W3 *	W4 *
ER2510FS 1U Head	360 mm 14.17 "	625 mm 24.60 "	720 mm 28.34 "	19.5 kg 42.95 lbs	-	44 mm 1.73 "	482 mm 19.00 "	426 mm 16.77 "	470 mm 18.50 "	17.5 kg 38.54 lbs	-
EonStor™ 2U 8-Bay	344 mm 13.54 "	600 mm 23.62 "	670 mm 26.37 "	23.5 kg 51.76 lbs	29.5 kg 64.97 lbs	88 mm 3.46 "	482 mm 19.00 "	446 mm 17.55 "	490 mm 19.29 "	16.0 kg 35.24 lbs	22.0 kg 48.45 lbs
EonStor™ 2U 12-Bay	344 mm 13.54 "	600 mm 23.62 "	670 mm 26.37 "	25.5 kg 56.16 lbs	34.5 kg 75.99 lbs	88 mm 3.46 "	482 mm 19.00 "	446 mm 17.55 "	490 mm 19.29 "	18.0 kg 39.64 lbs	27.0 kg 59.47 lbs
EonStor™ 3U 16-Bay	480 mm 18.89 "	600 mm 23.62 "	700 mm 27.55 "	34.5 kg 75.99 lbs	46.5 kg 102.42 lbs	132 mm 5.19 "	482 mm 19.00 "	450 mm 17.71 "	500 mm 19.68 "	18.0 kg 39.64 lbs	30.0 kg 66.07 lbs
3U 16-Bay (New Chassis)	435 mm 17.13 "	575 mm 22.63 "	780 mm 30.70 "	34.0 kg 74.88 lbs	46.0 kg 101.32 lbs	132 mm 5.19 "	482 mm 19.00 "	445 mm 17.51 "	550 mm 21.65 "	18.0 kg 39.64 lbs	30.0 kg 66.07 lbs
EonStor™ A08U-C2410	450 mm 17.71 "	510 mm 20.07 "	610 mm 24.01 "	21.0 kg 42.65 lbs	34.5 kg 60.57 lbs	155 mm 6.10 "	167 mm 6.57 "	375 mm 14.76 "	370 mm 14.56 "	11.50 kg 25.33 lbs	17.0 kg 37.44 lbs
						382 mm 15.03 "	235 mm 9.25 "	155 mm 6.10 "	370 mm 14.56 "		

*3 All weight information are estimated numbers as an example. The actual weight can vary with different drive models and configurations.

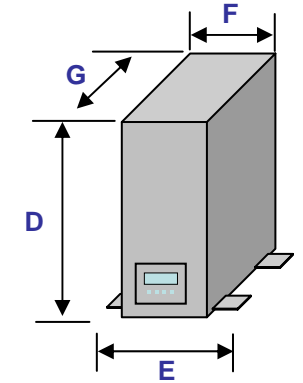
*4 Please allow additional 5 cm at the back of the subsystem for the cabling.



W1 = Shipping weight without drives
W2 = Shipping weight with drives
W3 = Subsystem weight without drives
W4 = Subsystem weight with drives



A08U-C2410
(Desktop Mode)



A08U-C2410
(Tower Mode)

Subsystem Model Names

Models Announced Before March 2004

Drive Interface
A=SATA
U=SCSI
F=Fibre

EonStor™

Drive Bays
16 = 16-Bay
12 = 12-Bay
08 = 8-Bay

Host Interface
U = SCSI
F = Fibre

Host Interface
2 = Fibre 2G
3 = SCSI-160

Cache Memory Installed
M1=128MB **M5**=512MB
M2=256MB **M10**=1GB

Product Type
A=RAID Subsystem
J=JBOD Subsystem

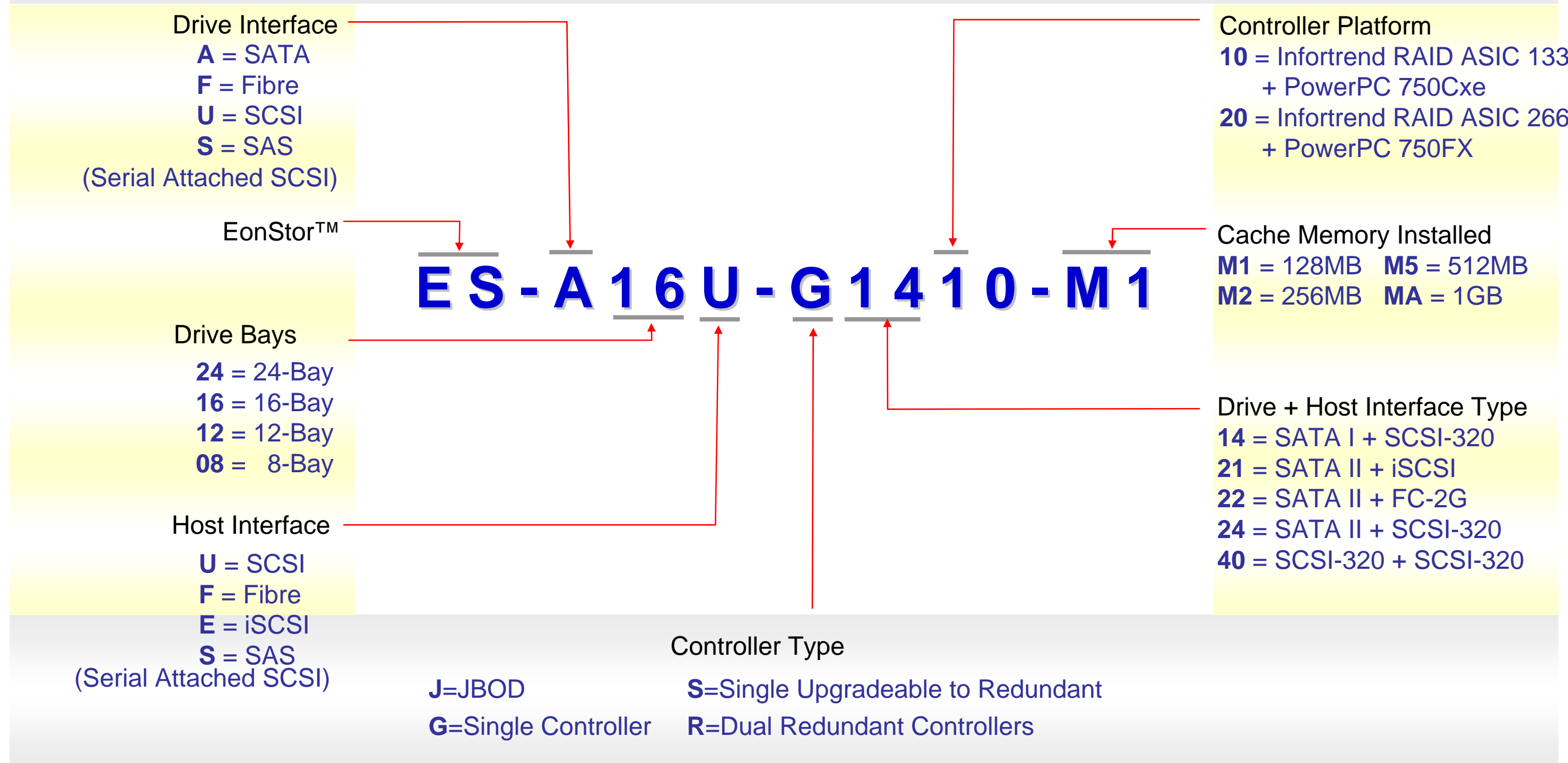
Drive Interface Type
1=SATA I
2=FC-2G
3=SCSI-160

E S - A 1 2 U - G 1 A 3 - M 1

Controller Redundant Support
G=Single Controller
S=Single Upgradeable to Redundant
R=Dual Redundant Controllers

Subsystem Model Names

New Models Announced from March 2004



Note: Existing models remain intact, only new models announced after March 2004 use new model naming.

SATA Disk Based

Combination 1: A16F-R1A2 + A16F-J1210-G

A16F-R1A2 (3U, 16 Disks)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 128 Disks	Up to 24U Height
A16F-S1A2 (3U, 16 Disks)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 128 Disks	Up to 24U Height

Combination 2: A16F-R1211 + A16F-J1210-G

A16F-R1211 (3U, 16 Disks)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 128 Disks	Up to 24U Height
A16F-S1211 (3U, 16 Disks)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 128 Disks	Up to 24U Height

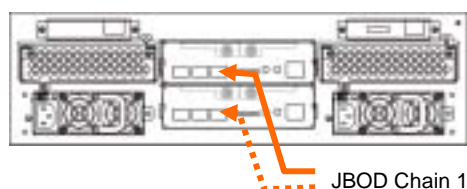
Combination 3: ER2510FS + A16F-J1210-G

ER2510FS-4S (1U, no disk)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 22U Height
ER2510FS-6S (1U, no disk)	+	A16F-J1210-G (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
ER2510FS-4RH (1U, no disk)	+	A16F-J1210-G (Up to 7 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 22U Height
ER2510FS-6RH (1U, no disk)	+	A16F-J1210-G (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
ER2510FS-4D (1U, no disk)	+	A16F-J1210-G (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
ER2510FS-6D (1U, no disk)	+	A16F-J1210-G (Up to 28 units) (3U, 16 Disks each)	=	Up to 448 Disks	Up to 85U Height

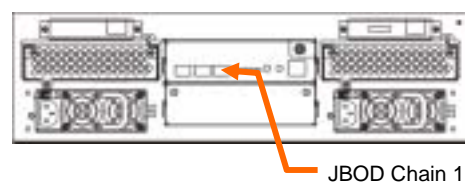
Cables and SFPs:

1. Fibre cables and SFPs are not included in the above models, should be purchased additionally.
2. At least 512MB cache memory is required in each RAID controller, when there are more than 96 disks in the configuration.
3. Host channels: Basically needs two LC-LC optical cables and four SFP modules. May vary depending on the connector type on the host computer or Fibre switch.
4. Drive channels: Each **A16F-J1210-G** unit requires two LC-LC optical cables and four SFP modules.
5. **ER2510FS-6RH**: It is recommended to use two of the drive channels as dedicated sync-cache channels, to gain an enhanced WRITE performance. When large capacity or more drives are required, user can configure and use four drive channels to connect drive JBODs.

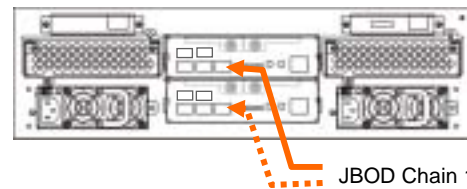
A16F-R1A2



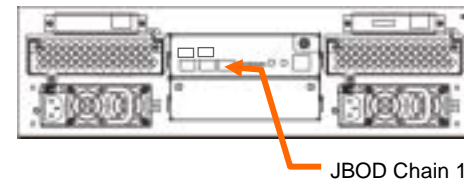
A16F-S1A2



A16F-R1211



A16F-S1211



RAID Controller Connections

ER2510FS-6S



ER2510FS-4S



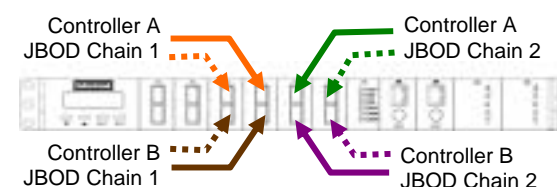
ER2510FS-6RH



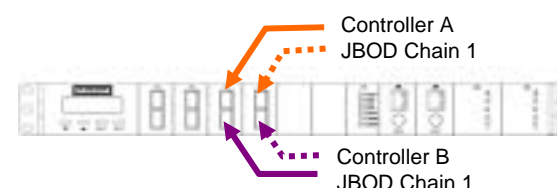
ER2510FS-4RH



ER2510FS-6D



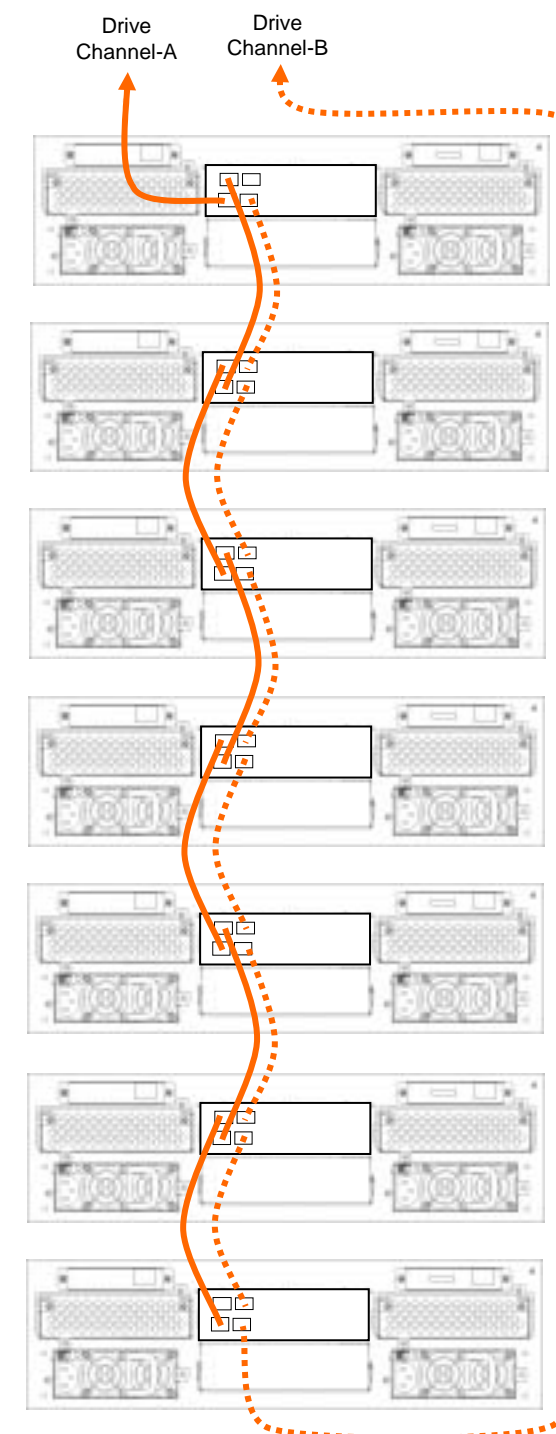
ER2510FS-4D



JBODs Connections

A16F-J1210-G

Connecting to the RAID Controller's Drive Channels



Up to 7 JBOD Subsystems can be chained in one pair of drive channels.
(Diagram shown above as one JBOD chain)

Fibre Disk Based

Combination 1: F12F-G2A2 + F16F-R2J2 (or F16F-S2J2)

F12F-G2A2 (2U, 12 Disks)	+	F16F-R2J2 (or F16F-S2J2) (Up to 6 units) (3U, 16 Disks each)	=	Up to 108 Disks	Up to 20U Height
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Combination 2: F16F-R2A2 + F16F-R2J2 (or F16F-S2J2)

F16F-R2A2-A (3U, 16 Disks)	+	F16F-R2J2 (or F16F-S2J2) (Up to 6 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 21U Height
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F16F-R2A2 (3U, 16 Disks)	+	F16F-R2J2 (or F16F-S2J2) (Up to 6 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 21U Height
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F16F-S2A2 (3U, 16 Disks)	+	F16F-S2J2 (or F16F-S2J2) (Up to 6 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 21U Height
------------------------------------	---	--	---	-----------------	------------------

Combination 3: ER2510FS + F16F-R2J2 (or F16F-S2J2)

ER2510FS-4S (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 7 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 22U Height
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ER2510FS-6S (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
-------------------------------------	---	---	---	-----------------	------------------

ER2510FS-4RH (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 7 units) (3U, 16 Disks each)	=	Up to 112 Disks	Up to 22U Height
--------------------------------------	---	--	---	-----------------	------------------

ER2510FS-6RH (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
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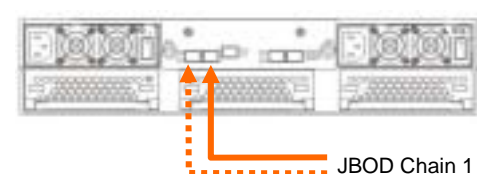
ER2510FS-4D (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 14 units) (3U, 16 Disks each)	=	Up to 224 Disks	Up to 43U Height
-------------------------------------	---	---	---	-----------------	------------------

ER2510FS-6D (1U, no disk)	+	F16F-R2J2 (or F16F-S2J2) (Up to 28 units) (3U, 16 Disks each)	=	Up to 448 Disks	Up to 85U Height
-------------------------------------	---	---	---	-----------------	------------------

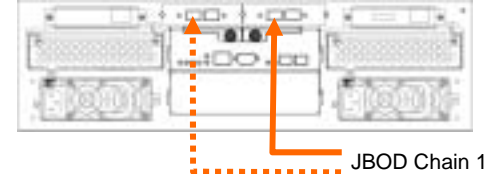
Cables and SFPs:

1. Fibre cables and SFPs are not included in the above models, should be purchased additionally.
2. At least 512MB cache memory is required in each RAID controller, when there are more than 96 disks in the configuration.
3. Host channels: Basically needs two LC-LC optical cables and four SFP modules. May vary depending on the connector type on the host computer or Fibre switch.
4. Drive channels: Each **F16F-R2J2** (or **F16F-S2J2**) unit requires two LC-LC optical cables and four SFP modules.
5. **ER2510FS-6RH**: It is recommended to use two of the drive channels as dedicated sync-cache channels, to gain an enhanced WRITE performance. When large capacity or more drives are required, user can configure and use four drive channels to connect drive JBODs.

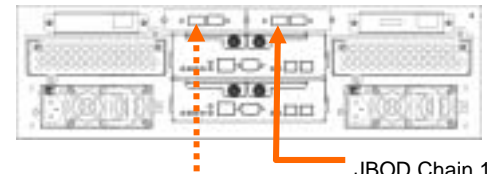
F12F-G2A2



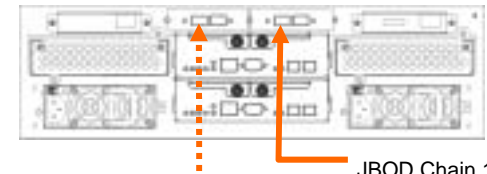
F16F-S2A2



F16F-R2A2



F16F-R2A2-A



RAID Controller Connections

ER2510FS-6S



ER2510FS-4S



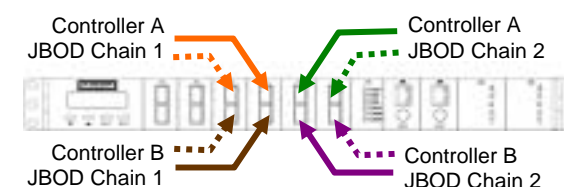
ER2510FS-6RH



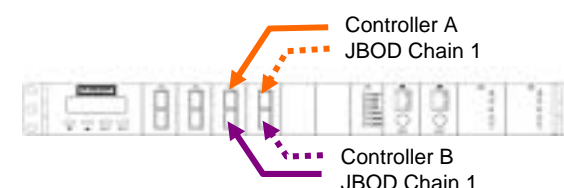
ER2510FS-4RH



ER2510FS-6D



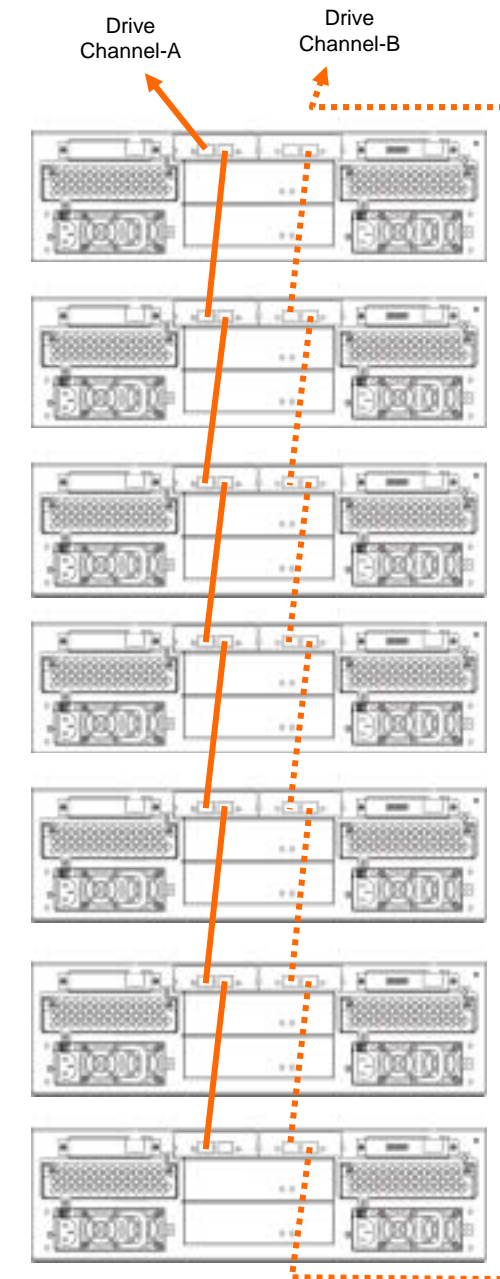
ER2510FS-4D



JBODs Connections

F16F-R2J2 / F16F-S2J2

Connecting to the RAID Controller's Drive Channels



Up to 7 JBOD Subsystems (**ER2510FS**) or up to 6 JBOD Subsystems (**F12F, F16F**) can be chained in one pair of drive channels. (Diagram shown above as one JBOD chain)

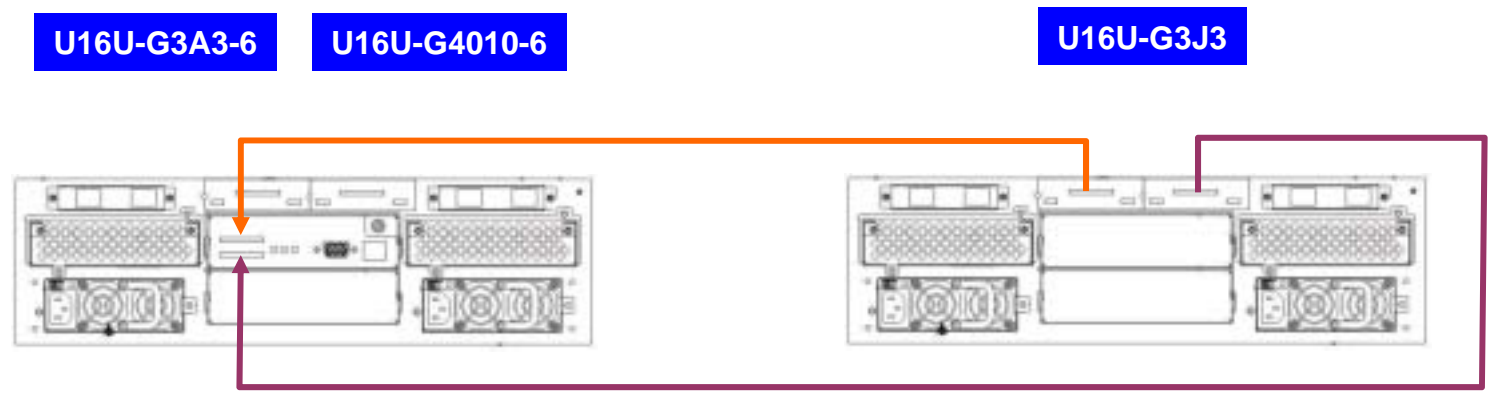
SCSI Disk Based

Combination 1: U16U-G4010-62 (or U16U-G3A3-6M2) + U16U-G3J3

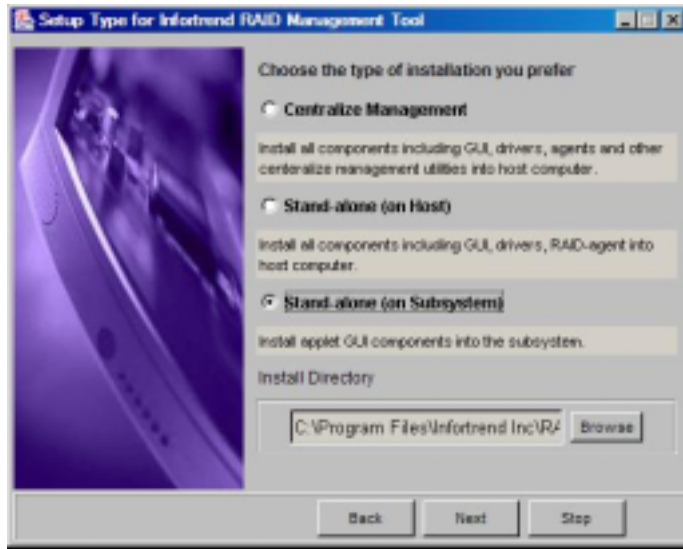
U16U-G3A3-6M2 <i>(3U, 16 Disks)</i>	+	U16U-G3J3 (Up to 1 unit) <i>(3U, 16 Disks)</i>	=	Up to 32 Disks	Up to 6U Height
U16U-G4010-62 <i>(3U, 16 Disks)</i>	+	U16U-G3J3 (Up to 1 unit) <i>(3U, 16 Disks)</i>	=	Up to 32 Disks	Up to 6U Height

SCSI Cables:

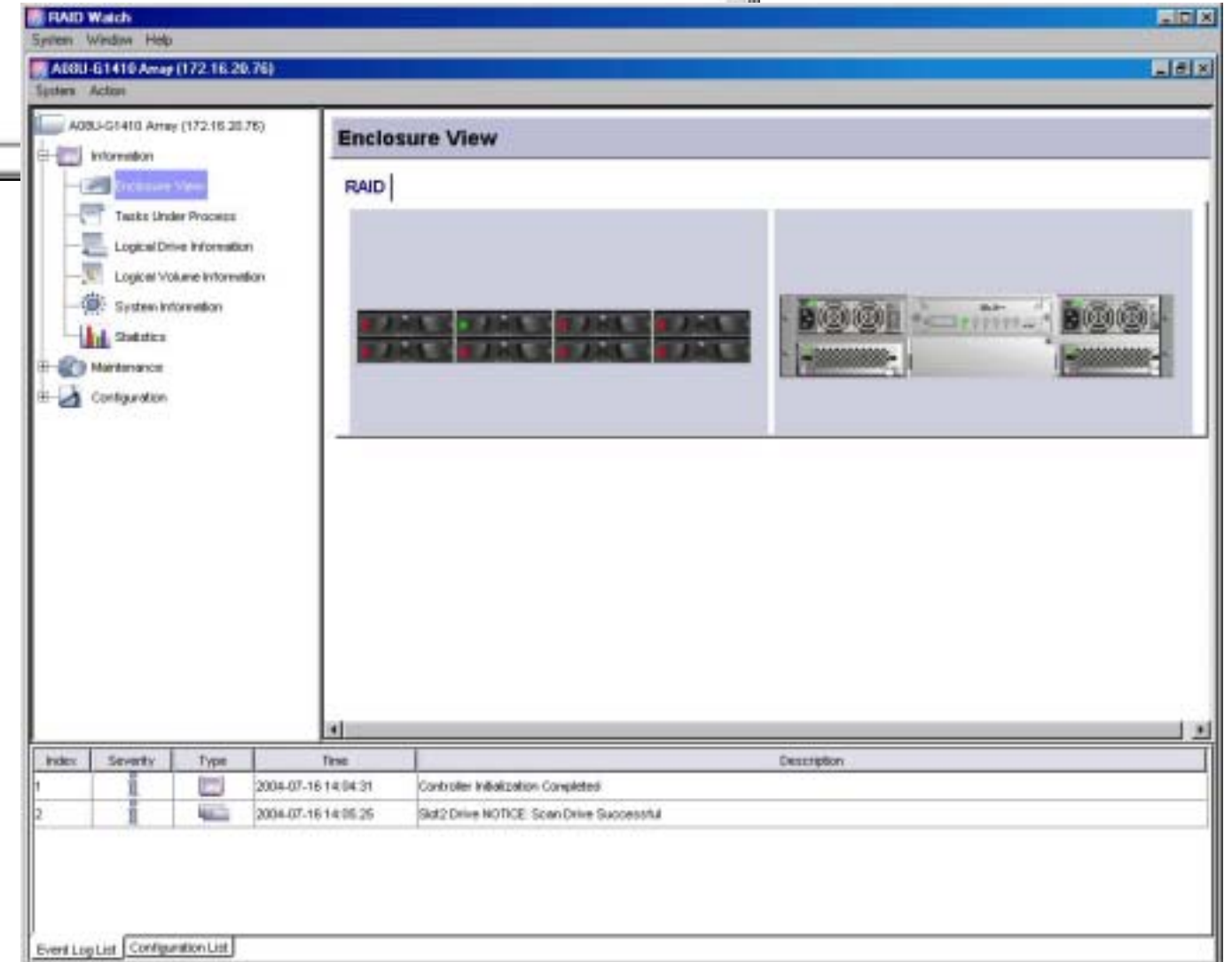
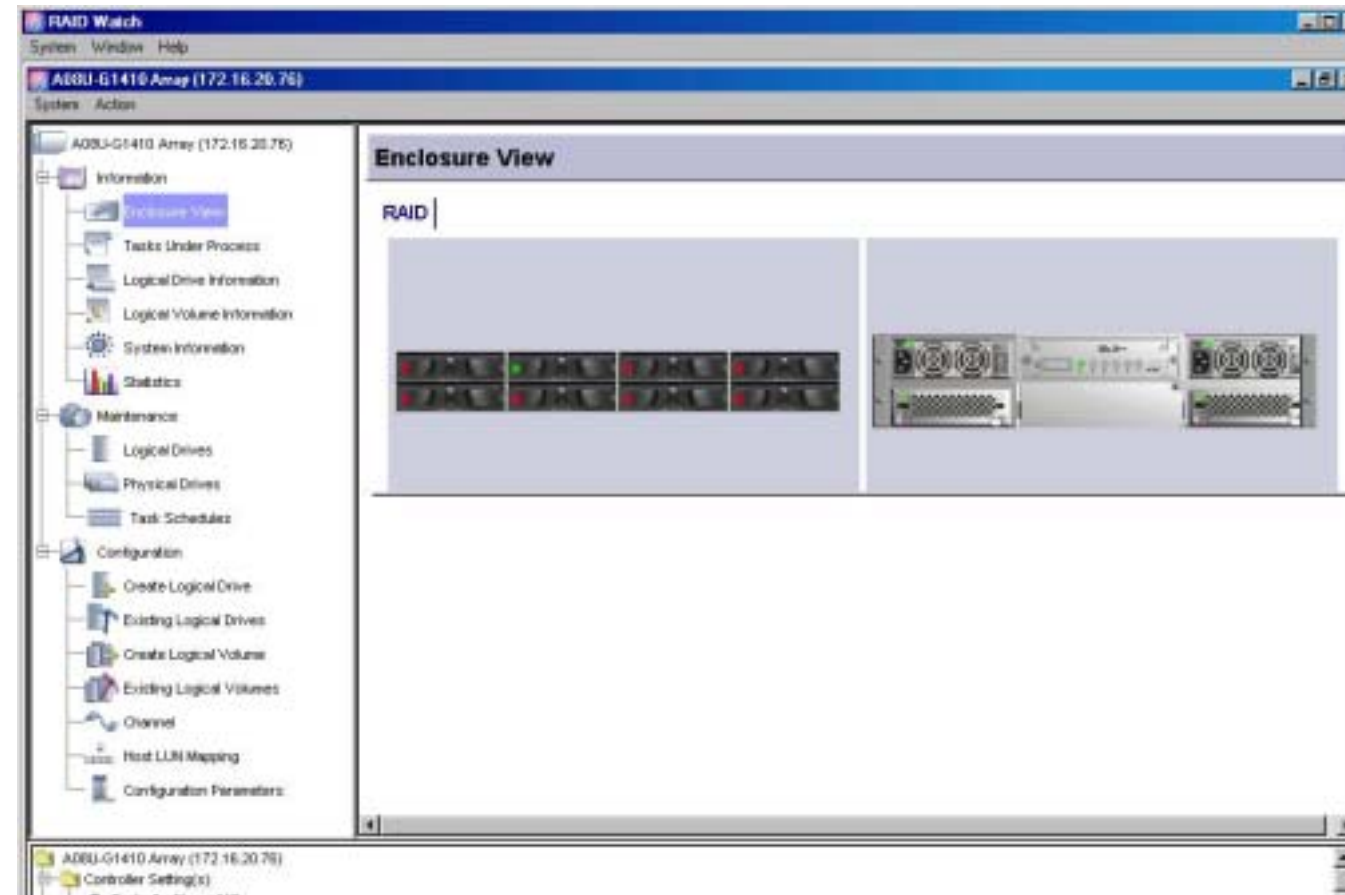
- Two types of SCSI cables are available:
 - 9270UHstCab** VHDCI – HD68, 1 meter
 - 9270UJBODCab** VHDCI – VHDCI, 1 meter
- Host-side: Depending on the SCSI connector on the SCSI HBA in the host computer. Up to two SCSI cables can be connected. The **U16U-G3A3-6M2** includes one **9270UHstCab** (VHDCI - HD68) cable.
- Drive-side: Two SCSI cables are required. (VHDCI-VHDCI cable) The **U16U-G3J3** includes one **9270UJBODCab** (VHDCI-VHDCI) cable, the other one should be purchased additionally.



Install as “Central Management” or “Stand-alone (on Subsystem) Model:



Log on as “Configuration” (full access), “Maintenance” or “Monitoring”:





Established in 1992, Infortrend designs and manufactures the RAID ASIC, RAID controller, RAID firmware, RAID management software and RAID subsystems. Infortrend is ISO 9001 certified.

EonStor™ are RAID subsystems manufactured by Infortrend, EonRAID and SentinelRAID are RAID controllers manufactured by Infortrend.



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