





Product Details		
Model	<b>New</b> A16U-G2421-M2	<b>New</b> A16F-G2221-M2
		
	SCSI-SATA RAID Subsystem 3U 16-Bay	Fibre-SATA RAID Subsystem 3U 16-Bay
<b>Form Factor</b> *1	3U Rackmount (New "3UC" Chassis Design)	3U Rackmount (New "3UC" Chassis Design)
<b>Drive Channels Hot Swap Trays</b> *2	16 Channels SATA-II 16-bay (Support Both SATA-I and SATA-II Drives) <i>IDE drives optional</i>	16 Channels SATA-II 16-bay (Supports Both SATA-I and SATA-II Drives) <i>IDE drives optional</i>
<b>Expansions Channels</b>	-	-
<b>Host Channels</b> *3	2 Channels SCSI U320 <i>Four VHDCI ports</i> <i>("IN" and "OUT" ports for each channel)</i>	2 Channels Fibre 2G <i>Two SFP Ports</i>
<b>Redundant Controller</b> *6	-	-
<b>RAID Function</b>	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	
<b>Advanced Functions</b>	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"	
<b>Management</b>	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-platfom 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>	
<b>Management via Built-in LAN</b>	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>	
<b>Hot Swap Fan Modules</b>	2	2
<b>Hot Swap Power Supplies</b>	2 x 460 W	2 x 460 W
<b>Cache Memory</b> *7	256 MB – 1 GB (DDR-SDRAM)	256 MB – 1 GB (DDR-SDRAM)
<b>Battery Backup</b> *8	Optional	Optional

Variants & Spare Parts		
Model	<b>New</b> A16U-G2421-M2	<b>New</b> A16F-G2221-M2
		
	(Rear View)	(Rear View)
<b>Controller Module</b>	83AU24GD16 (INC x1)	83AF22GD16 (INC x1)
<b>Fan Module</b>	9273CFanMod (INC x2)	9273CFanMod (INC x2)
<b>Power Supply Module</b>	9273CPSU (INC x2)	9273CPSU (INC x2)
<b>Drive Tray</b>	9273CDTray (INC x16)	9273CDTray (INC x16)
<b>Dongle Board for IDE Drive</b> *2	9270AN1S1P-0011 (OPT)	9270AN1S1P-0011 (OPT)
<b>RS-232 Cable</b>	9270ASCab (INC x1)	9270ASCab (INC x1)
<b>RS-232 Null Modem</b>	9011 (INC x1)	9011 (INC x1)
<b>Fibre Optical Cable (External)</b> *4	-	- (OPT)
<b>SFP Module</b> *4	-	96-SFP-JSP21S0AA1 (OPT)
<b>SCSI Cable (External)</b> *5	9270UHstCab (INC x1) 9270UJBODCab (OPT)	-
<b>Rack Mount Kits</b> *1	9273CSlider36 (OPT)	9273CSlider36 (OPT)
<b>Cache Memory</b> *7	256 MB DDR-SDRAM (INC x1) 512 MB and 1GB DDR-SDRAM (OPT)	256 MB DDR-SDRAM (INC x1) 512 MB and 1GB DDR-SDRAM (OPT)
<b>Battery Backup</b> *8	9273CBT-C (OPT)	9273CBT-C (OPT)
<b>CD, Manual &amp; QIG</b> *9 (Quick Installation Guide)	QIG (INC), CD (INC)	QIG (INC), CD (INC)

\*1 The details of the new "3UC" chassis design, see the next page. For rack mount kits, please see page of "Rack Mount Guide".  
**9273CSlider36** Up to 36" length (pole-to-pole length)

\*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 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.

\*5 The A16U-G2421 includes one (1) 9270UHstCab cable. The two (2) host channels both have internal SCSI terminators enabled by defaults. Customers can disable the internal terminators if required.

Both SCSI host channels have two VHDCI SCSI connectors ("IN" and "OUT" port) for easy connections.

If adding additional subsystems to the same SCSI bus is required, or the SCSI HBA is having VHDCI connector, please order optional 9270UJBODCab.

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

\*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 redundant controller models.

\*7 Supports Infortrend qualified DDR PC-2100 ECC 184-pin SDRAM DIMM only. Please contact Infortrend for optional memory upgrades.

\*8 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 100 hours. (Estimated time based on using 512MB 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.

The **9273CBT-C** is modular designed (hot-swappable without removing the RAID controller module), it contains Li-ION battery cells, with external battery status indicator.

\*9 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.

**ASIC-266 Platform**



- . Infortrend Proprietary RAID ASIC 500266, the latest generation RAID ASIC, designed by Infortrend, exclusive on Infortrend products only. (Faster hardware RAID XOR operations, enjoy the data protection of RAID 5 with real high performance)
- . Supports up to 1GB DDR PC-2100 cache memory, internal cache memory bandwidth up to 2GB/Sec. (Illuminating possible performance bottleneck on cache memory, for more stream-lined data throughput)
- . Uses IBM® PowerPC™ 750FX-600, with embedded 512K L2 Cache. (Much faster Random IOs and smaller transactions)
- . Two separate PCI-X buses, with optimum host and drive channels balance. (Faster Sustained Read, Write and long data stream performance)

**Double Performance**

**450**  
**MB/Sec.**

Performance Reference:  
(RAID 5, end-to-end none cached performance)

**A16F-G2221**  
Sustained Read RAID 5: **386** MB/sec  
Sustained Write RAID 5: **325** MB/sec

**A16U-G2421**  
Sustained Read RAID 5: **450** MB/sec  
Sustained Write RAID 5: **302** MB/sec

**SATA-II**

**3.0**  
**Gbps**

- . Both A16U-G2421 and A16F-G2221 features the latest drive interface technology - SATA-II.
- . SATA-II channel bandwidth 3.0Gbps (near 300MB/Sec)
- . Cable-less design ensures optimum signal quality
- . Every disk drive has its own dedicated SATA-II channel.
- . Backward compatible with SATA-I disk drives. Both SATA-I, SATA-II disk drives can be used, with optional dongle-board supporting PATA (IDE) drives (can be mixed in one configuration).

**New "3UC" Chassis**



New Drive Tray Design with "Push Button" Locking Mechanism



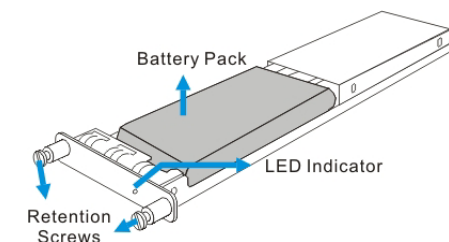
Dual-Speed Redundant Fan Module Auto-Switch Fan Speed for Quieter Operation or Maximum Air-Flow



Thermal-Sense Redundant Power Supply Temperature and Built-in Fan Conditions Constantly Monitored



"IN" - "OUT" Ports for Each SCSI Channel Built-in SCSI Terminations User Configurable Easy to Daisy-Chain Additional Subsystems (A16U-G2421)



Hot-Swappable Battery Design Li-ION Battery with External Battery Status Indicator Easy on-site Maintenance: Replace Battery Module without Removing RAID controller.

