

ATTO Diamond Storage Array V-Class

Enterprise Storage



An Enterprise-class RAID storage array with industry-leading density, reliability, performance and your choice of Fibre Channel or SCSI connectivity all at a new level of affordability

The Diamond Array V-Class is designed for storage consolidation, business continuance, digital video, imaging and near-line storage applications in which high density, high performance and affordability are driving factors to implementation. The ATTO Diamond Storage Array V-Class contains up to 24 drives per 3U enclosure and comes complete with a combination Ethernet/Serial Management card, redundant power supplies and cooling assemblies, as well as redundant pathways to the storage.

The Diamond Storage Array V-Class is available in both rack mount and desktide chassis designs. For added flexibility, the ATTO Diamond Array V-Class can be configured with either dual Ultra160 SCSI or dual 2-Gigabit/sec. Fibre Channel host interfaces.

TECHNICAL HIGHLIGHTS

- **Highest Density Available**
Up to 12 TB per 3U enclosure
- **Outstanding Performance**
Up to 240 MB/sec. sustained data transfers
- **Variable Host Connectivity**
2-Gigabit Fibre Channel or Ultra160 SCSI
- **Fault-resilient Design**
Redundant, hot-swappable components, hot Spares, ECC Memory
- **Highly Configurable Hardware**
RAID 0/1/5/10 or JBOD
- **Advanced Features**
Zoning / Mapping / Partitioning
- **Excellent Manageability**
SNMP, SES, CLI and In/Out of Band

ATTO

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Performance

- Configurations: RAID 0/1/5/10, JBOD
- Capacity: Up to 12 TB per 3U form factor
- Max Data Rate: (2 port Array) 2-Gigabit FC HIC: up to 400 MB/sec. full duplex per port; Ultra160 SCSI: up to 160 MB/sec. per port
- Number of Drives: 24 (max)
- Drive Size: 500 GB Type ATA
- Overlapped Command & Command Queuing Support (disk drive dependent)
- Buffer size: 256 MB ECC DRAM
- Hot spares supported

Management Services

- Integrated web server and browser-based GUI for configuration, management and diagnostics
- LEDs for Fibre Channel interface, disk drive status, system management activity, system faults and power supply status
- RS-232 serial port for monitoring and configuration
- Ethernet connection for LAN/WAN monitoring and configuration
- ATTO QuickRaid™ for RAID setup
- In-band management – SCSI, FC
- Field updateable firmware
- Thermal monitoring
- SMART environmental monitoring support
- Audible Alarm
- SES Support
- SNMP Trap support
- LUN Zoning / Mapping / Partitioning
- Hot Spare capability

Connectivity

- O/S and platform independent including support for large LBAs and greater than 2 TB LUNs
- Dual independent, hot-pluggable Host Interface Cards (HICs)
- Available Host Interface Cards
 - 2-Gigabit Fibre Channel 400 MB/sec. full duplex Fabric Ready Compatible with 1-Gigabit SFP based (Small Form-factor Pluggable) Integrated FC-AL hub port 2nd port built-in hub for chaining
 - Ultra160 SCSI 160 MB/sec. VHDCI connectors 2nd port built-in for SCSI chaining

Environmental and Physical Characteristics

- **Operating Temperature:** 5 - 40° C
- **Storage Temperature:** -25 - 60° C
- **Humidity:** 10 - 85% (non-condensing)
- **Rack Mount Dimensions:**
 - Height: 131 mm (5.16 inches / 3U)
 - Width: 447 mm (17.60 inches)
 - Depth: 585 mm (23.05 inches)
 - Weight: 39 kg (86 lbs)

Designed for balanced center mount

- **Acoustical Noise:** < 69dBA
- **Altitude:** Operating 10,000 ft at 35° C
- **Operating Shock:** 3G @ 11ms, 1/2 sine pulse

Certifications:

- CE Mark
- UL/CSA
- TUV
- ISTA packaging approved
- **Safety Compliance:**
 - UL 1950 3rd Edition
 - TUV EN 60950
 - CSA 22.2 No. 950-95
- **Quality Standard:**
 - Manufactured under ISO-9000 registered quality system
- **EMC Specifications:**
 - FCC Class A
 - EN 55022: Class A
 - EN 50204: RF Immunity 900 MHz Pulse
 - EN 61000-4-8: Magnetic Immunity
 - EN 61000-4-2: ESD
 - EN 61000-4-3: Radiated Immunity
 - EN 61000-4-4: EFT
 - EN 61000-4-5: Surge
 - EN 61000-4-6: Conducted Immunity
 - EN 61000-4-11: Voltage Dips and Interruptions

Additional Specifications

- Universal AC input voltage 100-240V 50/60 Hz nominal (90-264VAC range)
- Nominal power consumption (24 drives) 4.75 A @ 112V input, 532 W
- Dual 340 Watt power supplies
- Dual high volume blower assemblies
- Hot swappable:
 - Power supplies
 - Blower assemblies
 - Dual-drive disk sleds
- Hot pluggable:
 - Host Interface Cards (HICs)
 - System management card
- **Warranty:**
 - 2 Years

Potential Applications

- Near-line Backup
- Storage Consolidation
- Business Continuance
- Disaster Recovery
- Imaging / Fixed Content
- Primary Storage SMB
- Email Archive
- HSM
- Broadcast / Video Editing
- CAD / CAM
- Web Page Delivery
- Rich Media on Demand

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