

# EonStor™ A24U-G2421

**4U Profile, Single-controller,  
Dual SCSI-320 Host Channels  
24-drive SATA-II RAID Subsystem**



The ES A24U-G2421 boasts an IBM PowerPC FX 600MHz CPU and supports up to 12TB total system capacity when its 24 bays are populated with 500GB SATA drives.

Built around Infortrend's proprietary ASIC266 dual PCI-X architecture, the subsystem features a single RAID controller, two SCSI host channels, DDR266 cache memory, two dual-fan cooling modules, three power supplies, and an optional battery backup unit.

With reliable SCSI and clustering support, the EonStor A24U is a great, cost-effective storage solution to incorporate into disk farms, ATM service centers, and imaging

stations that require RAID protection at a lower cost per gigabyte.

To guarantee easy service and maintenance, this new array comes with modular, field-replaceable units that can be conveniently accessed from the front or rear of the enclosure. A hard disk drive, power supply, battery module, RAID controller or cooling fan can be replaced within seconds in the event of component failure.

The A24U-G2421 chassis has been enhanced to reduce vibration resonance and its dual-speed cooling fans provide quiet operation and lower power consumption under normal operating conditions. With its auto switch cache and shutdown policies plus support for an optional battery backup unit and uninterruptible power supply, the ES A24U ensures data protection when critical conditions occur.

## Features and Benefits

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**Full-featured RAID functionality with two (2) SCSI-320 host channels; transfer rate up to 320MBps each**

**The best end-to-end I/O performance in RAID5 configuration:**

**Sequential Read: 465MB/sec**

**Sequential Write: 348MB/sec**

**Single RAID controller providing complete RAID functionality**

**Designed to use 3Gbit/sec SATA-II disk drives; backward compatible with SATA-I disk drives**

**Hardware XOR engine by dedicated ASIC266 chipsets**

**RAID level 0, 1 (0+1), 3, 5, 10, 30, 50, JBOD**

**High density 4U chassis providing up to 12TB of storage capacity**

**Optional hot-swappable battery backup units (BBU)**

**Dual-speed cooling fans to reduce system noise**

**Ease of management through an LCD keypad panel, RS-232C terminal, or an Ethernet link (TCP/IP) to a R PC running Java-based RAIDWatch manager**

**Real-time event notification by a variety of methods**

**Backplane-based, cableless, modular enclosure**

## Specifications

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### RAID Controllers

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600MHz RISC processor with 512KB embedded L2 cache

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Custom ASIC266 with XOR engine

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Standard 256MB to 2GB cache memory in one (1) DDR RAM DIMM

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Optional battery backup unit (BBU), Li-Ion

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LCD control panel interface

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System fan speed/voltage/temperature self- monitoring

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Two (2) COM ports

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One (1) 10/100BaseT Ethernet port

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Diagnostic LEDs on all field-replaceable units

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### RAID Operation

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| Drives | SATA-II 3Gbit/sec via backplane; backward compatible with SATA-I |
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| Hosts | 2x Ultra320 SCSI |
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RAID level 0, 1 (0+1), 3, 5, 10, 30, 50, JBOD

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Max. 24x logical drives

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Dedicated and Global hot-spares

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Automatic background rebuild

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Multiple array configurations

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Intelligent drive handling

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| OS Support | Microsoft Windows 2003 Server, 2000 Server, NT<br>MAC OS X<br>Sun Solaris 8/9<br>RedHat Linux 8/9, enterprise 3<br>Suse Linux 8/9 |
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Redundant hot-swappable, field-replaceable units

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Enclosure and RAIDcontroller self-diagnostics

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Dual-stacked connectors for cascading

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## Controls and Indicators

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Front LCD control panel for setup and configuration

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LED indicators for power, battery, controller, and other system operation status

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Widest range of event notification methods: email, fax, LAN broadcast, SNMP traps, SMS, MSN and ICQ

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Built-in beeper / alarm mute button

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## Management Software

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Telnet over Ethernet

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RAIDWatch™ manager software for all major platforms via an Ethernet port

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Terminal via RS-232C (Audio Jack), for local access

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## External Connections

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Two (2) dual-stacked VHDCI SCSI connectors

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Two (2) COM ports (38400, n, 8, 1)

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One RJ45 Ethernet port

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## Power Supply

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3 redundant hot-swappable power supplies with PFC

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Input: 100, 240VAC

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DC Output: 12V-24A; 5V-36.5A; 3.3V-20A

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## Environmental

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Operating Temperature: 0° to 40°C

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Relative Humidity: 5-95%, non-condensing

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Altitude: Sea Level to 10,000ft

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## Dimensions

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Chassis with handles: 447(W) x 177.4(H) x 514(D) mm (4U, 19" rackmountchassis)