Dragon RAID

1U Storage platform with five hot-swap SCSI bays

The ITOX Dragon RAID 1U Storage Platform provides five externally accessible, hot-swap bays and metal drive carriers for SCSI drives.   ITOX offers the Dragon RAID as a case only platform (case, drive carriers, power supply) or a full system (including drives). A complete RAID system requires a RAID controller card, which resides in a host PC and a data cable from the host system to the Dragon RAID.

FEATURES
- **Rugged all-steel chassis.** The quality-built steel case is industry-standard 1.75" high, 19" wide, and 20.9" (530mm) deep.
- **Advanced system cooling.** Two 75mm blowers produce more than 26 CFM air-flow for effective cooling. Because of its advanced cooling the Dragon RAID may be operated in an ambient temperature of 45 degrees Celsius. Heat is dissipated quickly, components run cooler and the entire system lasts longer.
- **External access for all drives.** Three drive bays are externally accessible from one end of the chassis and two from the other. The metal drive carriers provide for hot-swap drive removal and replacement.
- **Chassis rails.** Slide rails are included.
- **250 watt power supply.** Plenty of capacity for a full 5-drive system.

BENEFITS
- **High Storage Capacity.**   If five 73GB drives are used, the 1.75" high Dragon RAID holds nearly as much data as 3000 file cabinet drawers. A 15-drive system with three 1U Dragon RAID units holds 1.1 terabyte of data, nearly the same as 9000 file cabinet drawers!
- **Protection against data loss.** RAID systems store data redundantly in more than one place and on more than one drive. This allows data recovery in case of a drive failure.
- **Faster data transfer.** RAID systems improve I/O performance by load balancing and by using drives in parallel. Using multiple drives increases drive life by dividing effort across disks.

APPLICATIONS
- **High capacity file server.** A fully configured Dragon RAID system offers the storage capacity of 5 drives (or 15 SCSI drives for a system with three Dragon RAID units), yet users address the data as if only a single drive were present.
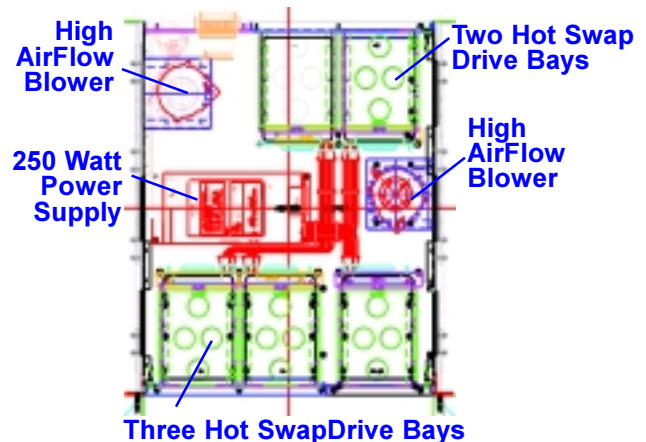
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MODELS and ACCESSORIES

- **DC1530-R Dragon RAID.** DC1530 case, PS-P1G-6250 250 watt power supply, internal SCSI cables, and one terminator for one external data connector. Five hot swap SCSI bays. Does not include external SCSI cables or external RAID controller. The Dragon RAID does not employ a motherboard, but requires an external RAID controller which is usually housed in a host PC.
- **HDC-2100S RAID Controller.** (Adaptec 2100S Ultra160 RAID Controller). Fits in a half length PCI slot in a host PC and supports RAID levels 5, 1, and 0/1.
- **CB-68HC68-3 SCSI Cable Controller to RAID**. Required.
- **CB-DB68DB68-3 SCSI Cable RAID to RAID.** This cable is used only when two Dragon RAID units are connected together. This cable connects the first Dragon RAID to the second. (This cable is not CE certified.)

High AirFlow Blower
Two Hot Swap Drive Bays
250 Watt Power Supply
High AirFlow Blower
Three Hot SwapDrive Bays

DIMENSIONS
- 1.73" High (44 mm) x 16.89" Wide (429 mm) x 20.87" Deep (530 mm)
- Weight (not including disk drives): 17.9 lbs; with packaging, 24.4 lbs)

CONSTRUCTION/FINISH
- Type of metal: Precoated phosphate 1mm steel
- Finish: Textured paint, black

DRIVE BAYS
- Five 3.5" drive bays, all hot-swap and externally accessible
- Steel carriers with 80-pin SCA (Single Connector Attachment) connectors

CONTROLS
- Power on/off switch

INDICATORS
- Ten LEDs: Power and activity for each of the five drive bays

POWER SUPPLY SUBSYSTEM
- 250 watt
- Output (ATX format connectors)

+ 5V	25A (max)	- 5V	0.5A (max)
+ 12V	12A (max)	-12V	1.0A (max)
+ 3.3V	14A (max)	+5VSB	1.5A (max)

- Input: 100/240v VAC, autoselecting, 50 to 60 Hz
- Fuse: 6.3A. 250V
- Power Factor Correction

THERMAL MANAGEMENT
- Two high efficiency blowers (75 mm, 4200 rpm, 13.1 CFM @ 20.8 mm Aq)

ENVIRONMENTAL
- Operating Temperature: 0 to 45°C ambient (assuming disk drives are specified to operate at 45°C or higher).
- Humidity: 20%-80% non-condensing

WARRANTY
- Two year parts and labor limited warranty

INTERFACE
- Ultra 160 SCSI or Ultra 2 SCSI
- Data transfer rate: 160Mbytes/second (Ultra 160) or 80 MBytes/second (Ultra2)
- Number of drives supported: 5 in one Dragon RAID unit or up to 15 in three Dragon RAID units
- Maximum external cable length: 12 meters
- Channel width: 16 bit

EXTERNAL CONNECTORS
- Two 68-pin VHDCI (Very High Density Cable Interconnect)
- The second connector is terminated, unless one Dragon RAID unit is chained to another. In this case the final connector is terminated.

REGULATORY
- Safety: UL, CE
- Emissions Control: FCC Class B (pending)