

ICP Disk Array Controllers



64-Bit PCI - Wide / Ultra160 SCSI



E x c e l l e n c e i n C o n t r o l l e r s

64-Bit PCI - Wide/Ultra160 SCSI

Hardware RAID Controller

- RAID 0, 1, 4, 5 and 10 or Cluster Support depending on controller model
- Hot Plug, Auto Hot Plug with SAF-TE/SES Support
- Private or Pool Hot Fix drives
- totally independent of host and operating system

The Advantage of Ultra160 SCSI

- maximum synchronous data transfer rates up to 160 MB/sec per channel (LVDS)
- data integrity validation to increase data reliability
- SCSI bus tests to guarantee stable data transfer

Versatile Connectivity and Networking Capabilities

- 2, 4 or 6 Wide/Ultra160 SCSI channels with active, software-switchable multi-mode termination
- either SE (Single Ended) or LVDS (Low Voltage Differential Signalling) operation
- up to 15 devices per channel
- cable length up to 12 meters (LVDS) per channel
- 2 external VHD connectors

Efficient Hardware

- runs in 64-Bit slots and fully backward compatible to 32-Bit slots
- hardware XOR engine for optimized RAID 4/5 operations
- backwards compatible to Wide/Ultra SCSI devices

64-Bit Technology Throughout

- 100 MHz Intel i960® RN RISC I/O processor
- 64-Bit Cache RAM, non-buffered PC100 DIMM, also with ECC, from minimum 16 MB up to 128 MB
- 64-Bit PCI bus interface with Bus Master transfer rates of 264 MB/sec, PCI 2.2 compatible

Driver Support

- MS-DOS, Windows 9x/NT/2000, Novell NetWare, SCO Unix, UnixWare, Linux and Solaris
- I₂O ready

Configuration Flexibility

- simultaneous operation of several disk arrays
- variable capacity configuration
- Online Capacity Expansion
- Online RAID Level Migration
- complete Disk Array Migration

Delivery Contents

- ICP Disk Array Controller (without RAM)
- User's Manual (Quick Installation Guide)
- ICP RAID Navigator and ICP RAID Console: installation and configuration programs as well as monitoring utilities
- CD-ROM with tools and drivers
- software updates with Flash RAM technology, easy download from www.icp-vortex.com

ICP Controller	Number of Wide/Ultra160 SCSI Channels / Number of Attached Devices	Maximum Synchronous Data Transfer Rate Per Wide/Ultra160 Channel	RAID 0, 1, 4, 5 and 10 Hot Fix/Hot Plug and SAF-TE/SES Support	Cluster Support	Cache RAM in MB, SDRAM	PCB Size
GDT7523RN	2/30	160MB/sec.	yes	upgradable	16 - 128	short
GDT7543RN	4/60	160MB/sec.	yes	upgradable	16 - 128	PCI long
GDT7563RN	6/90	160MB/sec.	yes	upgradable	16 - 128	PCI long
GDT7623RN	2/30	160MB/sec.	yes	yes	16 - 128	short
GDT7643RN	4/60	160MB/sec.	yes	yes	16 - 128	PCI long
GDT7663RN	6/90	160MB/sec.	yes	yes	16 - 128	PCI long



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