



Front-accessible,
Hot-swappable Fans

TS2200A TELCO SERVER PLATFORM



2U High

NEBS® Compliant

Cost Effective

Dual AMD Opteron™

Pinnacle's management system is certified to:

ISO 9001:2000

ISO 14001:2004

ISO 13485

TL9000

SYSTEM OVERVIEW

The TS2200A is a cost-effective NEBS® Level 3 compliant rack-mount or stand-alone platform. The TS2200A platform comes with two AMD Opteron™ dual-core or quad-core processors, up to 32 GB of DDR2 memory, and features IPMI System Management. The compact TS2200A enclosure, 2U high by 20" Telco depth, features redundant rear DC power supplies, 4 front hot-swap 2.5" SAS or SATA disks.


The TS2200A uses cost effective CPUs without active heat sinks, and provides superior carrier grade cooling and serviceability. Its modular high capacity redundant hot-swap fans assure quiet operation and can be quickly serviced. They are directly accessible from the front – no need to open a top cover (see sidebar above).

Designed for NEBS compliancy, PDSi's platforms can be custom-configured and managed to provide long-life support. PDSi can also manage full NEBS certification with customer specific PCI cards installed.



HIGHLIGHTS

- 2U 20" deep form factor for high-density Telco configurations
- Motherboard supports up to 32GB of memory, dual GigE LAN ports, and up to 6 vertical or 3 horizontal PCI expansion cards.
- Quad-core or dual-core AMD Series 2000 Processors
- High capacity redundant fans, w/ front-accessible hot swappable trays – no top cover removal. Tachometer fans for noise control.
- Up to four front-accessible hot-swap SAS or SATA drive bays
- Front bezel includes an air filter and available for branding and customization
- Cost-effective solution with extended availability and support
- Dual -48VDC Standard, AC available
- Solaris 10, carrier-grade Linux, and Windows server compatible

Processor	Up to two (2) AMD Opteron™ 2000 series quad core or dual core processors
Motherboard	SuperMicro H8DM3-2 with 1000 MHz Hypertransport bus nVidia MCP55 Pro / AMD 8132 chipset
Memory	Up to 32GB DDR2 667 MHz ECC Register RAM
Hard Drive	Four (4) SAS or SATA-II Hard Drives, 2.5"
Network	Two (2) 10/100/1000Mb Ethernet Ports
Chassis/Power Supply	500W Dual Redundant 48VDC power Hot –swappable supplies AC version optional
Cooling	Four (4) hot-swappable front fan trays 2 trays with dual redundant 80MM fans 2 trays with single or dual 60MM fans
	 80mm Fan Tray shown
Front Panel I/O	One (1) USB 2.0 Ports Status LEDs (power, LAN, HDD activity)
Rear Panel I/O	Two (2) RJ45s Gigabit Ethernet Two (2) USB 2.0, One (1) VGA Video, One (1) RS-232 Serial, One (1) Parallel, PS/2 Keyboard and Mouse Ports, One (1) Dry Contact Alarm Port (optional)
Dimensions	3.5" (2U) H x 19" W x 20" D

Slot Expansion

Vertical Half-Height:

- Two (2) PCI Express x8 slots
- One (1) PCI Express x4 (x8 conn) slots
- One (1) 64-bit 133MHz PCI-X slots
- Two (2) 64-bit 133/100MHz PCI-X slots



Horizontal Full-Height:

- One (1) PCI Express x8 slots
- and any two of the following:
- One (1) PCI Express x8 slots
- One (1) PCI Express x4 (x8 conn) slots
- One (1) 64-bit 133MHz PCI-X slots
- Two (2) 64-bit 133/100MHz PCI-X slots



Drive Bays

- Up to four (4) 2.5" SAS or SATA drives
- 1 Slimline CD-ROM/DVD-ROM
- Optional Flash or Compact Flash drives

Remote Management (optional)

- IPMI v2.0 with SuperMicro SuperDoctor III
- PDSi Alarms Manager Software Suite

OS Support

- Microsoft Windows XP
- Microsoft Windows Server 2003
- Red Hat Linux Enterprise 3.0
- Sun Solaris x86 9 and 10
- SuSe Linux

Environment

- Normal Operating Temperature: 5°C to 40°C
- Short Term: -5°C to 55°C
- Non-operating Temp: -40°C to +70°C

Relative Humidity:

- Normal: 5% to 85% non-condensing
- Short Term: 5% to 90% non-condensing

Regulatory (optional)

- UL 60950, CSA 60950, EN 60950
- FCC Class A, Part 15, CISPR 22, EN 300-386, EN 55024

Designed for compliancy:

- Telcordia* GR-1089-CORE, GR-63-CORE, SR-3580 NEBS Level 3



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