



## TS2240 TELCO SERVER PLATFORM



2U High

NEBS® Compliant

Cost Effective

Dual Intel® Xeon®

Pinnacle's management system is certified to:

ISO 9001:2000

ISO 14001:2004

ISO 13485

TL9000

### SYSTEM OVERVIEW

The TS2240 is a cost-effective NEBS® Level 3 compliant rack-mount or stand-alone platform. The TS2240 platform comes with either 2 Dual-Core or 2 Quad-Core Intel® Xeon® processors, up to 16 GB of DDR2 memory, and features IPMI System Management. The compact TS2240 enclosure, 2U high by 20" Telco depth, features redundant rear DC power supplies, 4 front hot-swap 2.5" SAS or SATA disks, and modular high capacity redundant hot-swap fans. The TS2240 provides superior carrier grade cooling and serviceability - it uses cost effective CPUs without active heat sinks, while the redundant fans assure quiet cooling and can be quickly serviced. The TS2240 platform has been internally NEBS tested at PDSI.

PDSI's platforms can be custom-configured and managed to provide long-life support. PDSI can also manage NEBS certification with customer specific PCI cards installed.

## HIGHLIGHTS

- 2U 20" deep form factor for high-density Telco configurations
- Motherboard supports up to 16GB of memory, dual GigE LAN ports, and up to 3 PCI expansion cards for system flexibility. Horizontal or vertical card configurations available.
- Dual-Core or Quad-Core Intel® Xeon® processors
- High capacity redundant fans, w/ hot swappable trays for each CPU. 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

<b>Processor</b>	Up to two (2) Dual-Core or Quad-Core Intel® Xeon® processors - Quad-core: 5300 sequence - Dual-core: 5100/5000 sequence
<b>Motherboard</b>	SuperMicro X7DVL-3
<b>Memory</b>	Up to 16GB 667/533MHz DDR2 ECC FB-DIMM memory
<b>Hard Drive</b>	Four (4) SAS or SATA-II Hard Drives, 2.5", hot-swappable
<b>Network</b>	Two (2) 10/100/1000Mb Ethernet Ports
<b>Chassis/Power Supply</b>	500W Dual Redundant 48VDC power Hot-swappable supplies AC version optional
<b>Cooling</b>	Four (4) front fan trays, 2 with hot-swappable, redundant 80MM fans, 2 with redundant 60MM fans for PCI area
<b>Front Panel I/O</b>	One (1) USB 2.0 Ports Status LEDs (power, LAN, HDD activity)
<b>Rear Panel I/O</b>	Two (2) RJ45s Gigabit Ethernet One (1) RS-232 Serial Port One (1) VGA Video Port Two (2) USB 2.0 Ports One (1) Parallel Port PS/2 Keyboard and Mouse Ports One (1) Dry Contact Alarm Port (optional)
<b>Dimensions</b>	Height: 3.50" (2U)

## Slot Expansion

### Vertical Half-Height:

- One (1) PCI Express x8 slot
- One (1) 64-bit 133MHz PCI-X slot
- One (1) 32-bit 33MHz PCI slot



### Horizontal Full-Height:

- Three (3) PCI Express x8 or 64-bit 133MHz PCI-X slots



## Drive Bays

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

## Remote Management

- IPMI v2.0 with SuperMicro SuperDoctor III Card (optional)
- Pinnacle Data Systems, Inc. Alarms Manager Software Suite (optional)

## 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



## Pinnacle Data Systems, Incorporated – Headquarters

6600 Port Road, Groveport, OH 43125 – Tel: 614-748-1150 – Fax: 614-748-1209 – Web: [www.pinnacle.com](http://www.pinnacle.com)

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