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**Maximum Connectivity**  
The Netra™ CP2300 features dual Ethernet and serial ports, Ultra EIDE, and USB with PICMG HA hot-swap functionality.

**NEBS-Compliant**  
NEBS Level 3 compliance means the Netra CP2300 can meet tough environmental and serviceability needs.

**Increased Resource Utilization**  
A set of CP2300 servers can convert enterprise servers into a set of embedded switched-fabric distributed systems.

**Cluster-Ready**  
Up to 18 CP2300 servers can be clustered through Sun's Netra Blade System Management and NHAS software for carrier-grade implementations of NFS, RPC, and TCP/IP.

**Easily Managed**  
The CP2300 can be independently powered up and down, reset, and can monitor any I/O slot in an HA hot-swap-compliant chassis.

On the Web | <http://www.sun.com>

## Netra™ CP2300 Telecom Blade Server

Sun's next-generation PICMG 2.16 single-board computer (SBC) for telecommunications and embedded applications.

SunWin Token# 369618



- UltraSPARC® III processor
- 512 MB on-board memory (expandable to 2.5 GB)
- Solaris 8 and 9 Operating Environments
- Netra HA Suite 2.1 (NHAS)
- Standard CompactPCI 6U form factor
- PICMG 2.16-compliant
- NEBS Level 3-compliant
- PICMG 2.1 HA hot-swap support
- 2 PMC slots
- Dual 10/100 Ethernet channels
- Dual IPMI (PICMG 2.9 support) system management buses
- UltraDMA EIDE

**Typical Applications:**

- Telecommunications infrastructure
- Broadband network services such as frame relay, ATM networks
- Wireless local loop modular base station
- Mobile traffic switching offices for cellular networks
- Mobile satellite systems
- Internet backbone infrastructure
- IP gateway
- Voice processing
- Call processing
- Maintenance and administration

The Netra CP2300 builds on the success of the CP2000 family of CompactPCI (cPCI) boards. Based on PICMG 2.16 Packet Switching Backplane (cPSB) specification, the CP2300 is designed to provide improved reliability, availability, and system management—completing the transformation from embedded SBC to telecom Blade server.

The Netra CP2300 offers some of the best of the enterprise computing world, including the Solaris™ Operating Environment, Netra High Availability (HA) Suite, and the vast array of applications associated with Sun's award-winning operating environment—yet its cPCI form-factor, mid-plane embedded redundant Ethernet routing, and NEBS Level 3 compliance prepare it for the tough environmental and serviceability needs of Network Equipment Providers, Defense, Aerospace, Healthcare, Semiconductor OEMs, and other specialized capital equipment manufacturers.



# Netra CP2300 Telecom Blade Server

Get the details.

Purchase these products from the Sun™ Store, sun.com/store, or contact an authorized Sun reseller near you.

## Specifications

### PROCESSOR

650-MHz UltraSPARC III, 32-KB integrated primary cache, integrated 4-way 512-KB cache

### OPERATING SYSTEM SUPPORT

Solaris 8 and 9 Operating Environments

### MEMORY

512 MB on-board memory (expandable to 2.5 GB via two PC133 SODIMMs)

### FLASH MEMORY

1 MB on-board boot flash, 7 MB user-programmable memory

### BUS INTERFACE

Dual cPSB 10/100 Mb/sec. FastEthernet Memory read/write 500 MB/sec. (estimated) bandwidth Dual system management IPMI channels

### HOT-SWAP

HA hot-swap compliance Full hot-swap support

### I/O INTERFACES

Two PMC slots  
Two PIM interfaces on RTM (for PMC rear I/O)  
One EIDE UltraDMA 100 ATA bus to RTM on-board connector  
Serial ports: Two RS-232C asynchronous (one shares front panel and RTM, one RTM only)  
USB port to RTM

### NETWORKING INTERFACE

Two 10/100 Ethernet channels (both rear access)

### FRONT CONNECTORS

One serial mini DIN9  
Two PMC slots

### REAR CONNECTORS (through RTM)

Two 10/100 Ethernet RJ-45  
Two serial mini DIN9  
USB  
External reset  
Two PIMs for PMC rear I/O  
UltraDMA EIDE 40-pin connector (mutually exclusive with PIM A I/O 1-29)

### SUPERVISORY

PICMG 2.9 System Management-compliant  
Three-level watchdog timer; local alarm capabilities for power, thermal; FRU ID

### SWITCHES

Momentary reset button/switch, abort button/switch (both buttons are recessed from front panel)

### TOD/NVRAM

Clock/Calendar 8 KB of NVRAM

### FRONT PANEL LEDS

Power OK; PICMG hot-swap; alarm or user-defined

### MECHANICAL DIMENSIONS

(Single-slot Eurocard 6U form factor)  
Height: 233.3 mm (9.2 in.)  
Depth: 160.0 mm (6.2 in.)  
Width: 20.0 mm (0.8 in.)

### POWER

Less than 25 W typical  
Input power 3.3 V, 5 V required

### ENVIRONMENTAL

NEBS Level 3 (GR-63-CORE, GR-1089-CORE)  
MIL-STD-883C (Method 514.4, CAT1; Method 516.4, II-3.2)  
Operating temperature: 0° C to 40° C; 15% to 85% RH  
Nonoperating temperature: -40° C to 70° C; 5% to 95% RH  
Cooling: 350 LFM  
Altitude: 60 m below sea level to 4000 m above sea level

### PICMG CONFORMANCE

PICMG 2.0 R3.0 (mechanical and power input compliance)  
PICMG 2.1 R2.0 hot-swap  
PICMG 2.10 R1.0 keying of cPCI boards and backplanes  
PICMG 2.9 R1.0 system management specification  
PICMG 2.15 R1 PTMC mode 0, 7  
PICMG 2.16 Compact Pocket Switching Backplane (cPSB)

### REGULATORY CONFORMANCE

FCC Class A, EN 55022, VCCI Class A EMI; UL 60950, CSA C2.22, EN 60950 safety; MIC EMI; BSMI Class A

### MTBF

246,789 hours with 512 MB memory

### TRANSITION CARD

Rear Transition Module (RTM) XCP2300-TRN

### PC133 SODIMM MEMORY CARD

XCP2300-MEM-512, XCP2300-MEM-1GB

Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, CA 95054 Phone: 650 960-1300 or 800 555-9SUN Internet: www.sun.com



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