4U CompactPCI PSB System Platform   cPS-4081

- **4U, 19-inch Rackmount Enclosure**

- **PICMG® 2.16 Compliant Backplane**

- **Eight, 6U Slots - One Switched Fabric & Seven 64-bit/66MHz Node Slots**

- **2 PCI Bus Segments Supporting H.110 Computer Telephony Bus**

- **Eight, 6U Rear Panel I/O Slots**

- **N+1 Redundant, Load-sharing, Hot-swappable 250W AC Power Supplies**

- **Efficient Side-to-Rear Cooling**

- **IPMI-based, Star Topology Chassis Management Module**

- **Secure, Comprehensive LOM**

Diversified Technology's cPS-4081 4U general purpose CompactPCI PSB System Platform, part of DTI's PlexSys family of PICMG 2.16-compliant building blocks, provides telecom and Internet IP-based OEMs an open standards ecosystem for application solutions development.

The cPS-4081 rugged, designed-for-NEBS enclosure features an 8-slot transversely mounted backplane with one dedicated 10/100/1000 Ethernet switched fabric slot, two system master and five node slots. Accepting 6U cards at the front and rear, the backplane provides two CompactPCI bus segments as well as support for the H.110 computer telephony bus for high density computing. All slots are served by redundant fabric connections, allowing for full system fail-over in the event of fabric failure. Backplane interconnect speeds are user-definable and scaleable from 10Mbps to 2000Mbps per node slot allowing users to cost effectively grow as the need arises.
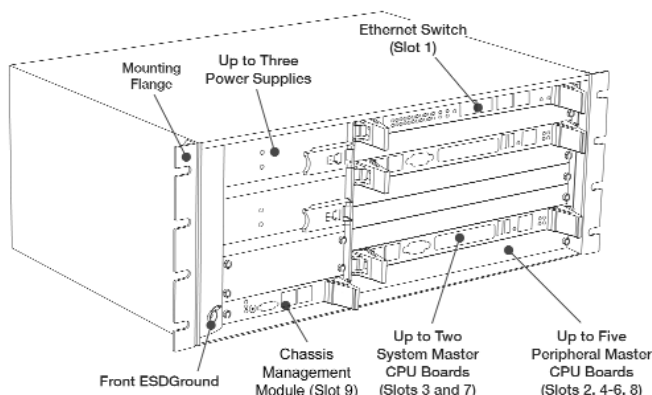
The hot-swappable blower tray, with two blowers, provides efficient side-to-rear cooling, and coupled with three N+1 redundant, load-sharing 250W AC 47-pin connector power supplies, creates a highly available, high density computing environment. The 3U IPMI 1.0-compliant cCM-3402 chassis management module manages processor blade traffic, and monitors system status including presence, power-on, temperature, voltages, fan speeds, and health of components. It communicates with the system using an IPMB bus in a star topology to achieve secure, comprehensive, lights-out management. An exclusive, out-of-band 10/100 Ethernet management port avoids impacting traffic on the primary network. The cPS-4081 supports a PICMG 2.16-compliant switched fabric blade such as the DTI cSB-4240 Ethernet layer 2/3 Switch.

Compact, durable, reliable. Compatible with Diversified Technology's PlexSys series of processor blades and switches, the cPS-4081 system platform is the reasoned choice for OEMs addressing web/e-mail/cache server, VPN switcher, media gateway, 2.5G and 3G wireless, server clusters, IP DSLAM and voice/video/data server markets.
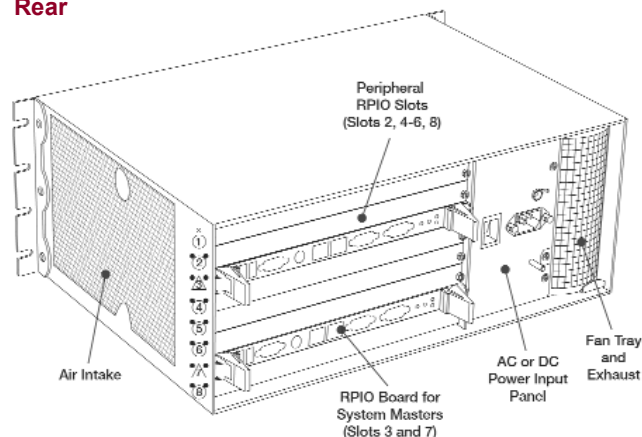
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www.dtims.com • **sales@dtims.com** • **1.800.443.2667**

cPS-4081

4U CompactPCI PSB System Platform

Front

- Mounting Flange
- Up to Three Power Supplies
- Ethernet Switch (Slot 1)
- Front ESDGround
- Chassis Management Module (Slot 9)
- Up to Two System Master CPU Boards (Slots 3 and 7)
- Up to Five Peripheral Master CPU Boards (Slots 2, 4-6, 8)

Rear

- Peripheral RPIO Slots (Slots 2, 4-6, 8)
- Air Intake
- RPIO Board for System Masters (Slots 3 and 7)
- AC or DC Power Input Panel
- Fan Tray and Exhaust

SPECIFICATIONS

Dimensions
- 6.94" H x 17.2" W x 12.2" D
  (176mm x 437mm x 310mm)

Weight
- 30.5lbs (13.9kg)

Construction/Finish
- Cold roll steel (CRS) with nickel plating
- Removable mounting brackets
- Beige

Backplane
- 8 6U slots, 3.3 or 5V V(I/O), IEEE 1101.10 front, IEEE 1101.11 rear
- 1 Ethernet fabric slot, top
- 7 node slots, slots 3 & 7 support 4HP system master blades
- Dual PCI buses
- Dual H.110 buses
- Rear panel I/O, 8 6U x 4HP x 80mm slots
- Conforms to PICMG 2.0, R2.1 (Core), 2.1, R2.0 (Hot Swap), 2.16, R1.0 (PSB), 2.5, R1.0 (Computer Telephony), 2.11 (Power I/F), and 2.9 R1.0 (Management) specs.

Peripherals/Other
- 3U Chassis Management Module slot
  See also cCM-3402 Data Sheet

Controls/Indicators
- Rear power on/off
- Front & rear chassis ESD ground
- Rear chassis ground

I/O
- Rear panel AC power inlet

Thermal Management
- One hot-swap fan tray with two blowers
- Side-to-rear air flow
- 200LFM/slot

Power Supply
- Three N+1 redundant, 3U load-sharing 250W AC, 47-pin
  +5V/80A, +12V/11A, +3.3V/80A, -12V/1A
  Assumes two of three operating
  Total combined output from 3.3V & 5V not to exceed 80A
- Input Voltage: 110 or 220 VAC
- Input Frequency: 50Hz - 60Hz
- Input Current: 4A max/115V, 2A max/230V
- Efficiency: 65% min.
- MTBF: 50,000 at 65°C ambient temperature (fan)

Environmental
Operating
- Temperature: 5° to 40°C / 41° to 104°F
- Humidity (RNC): < 95% @ 40°C/104°F
- Altitude: 3048m / 10,000ft
- Shock: 10G per ASTM 0775
- Vibration: 16-200Hz @ 0.25G
- Acoustic Noise: <50dB at 1mm in front at full load

Storage and Transit
- Temperature: -40° to +70°C / 32° to 158°F
- Humidity (RNC): 10 to 95% @ 40°C/104°F
- Altitude: 15,240m / 50,000ft
- Shock: 40G, 11ms duration
  (in approved packaging)
- Vibration: 5-300Hz @ 1.03G
  (in approved packaging)

Regulatory Compliance
- Designed for NEBS/ETSI
- CE Certification
- Safety: UL/cUL 60950; EN/IEC 60950; CB Report Scheme CB Certificate and Report

Regulatory Compliance (cont'd)
- EMC/EMI: FCC 47 CFR Part 15, Subpart B, Class B; EN55022, EN50081-1/CISPR22; Bellcore GR-1089; EN55024

Ordering Information
cPS-4081
4U PSB system platform includes an enclosure, backplane, three power supplies, fan tray, and chassis management module

Options
cSB-4240 Ethernet switch
Filler Panels

See also **cPB-4305, cPB-4321** or **cPB4325** processor blades; **cRT-455P** rear panel I/O transition module

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www.dtims.com
1.800.443.2667
476 Highland Colony Parkway • Ridgeland, MS 39158

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