ZNYX Networks
Layer 2 CPSB Switch
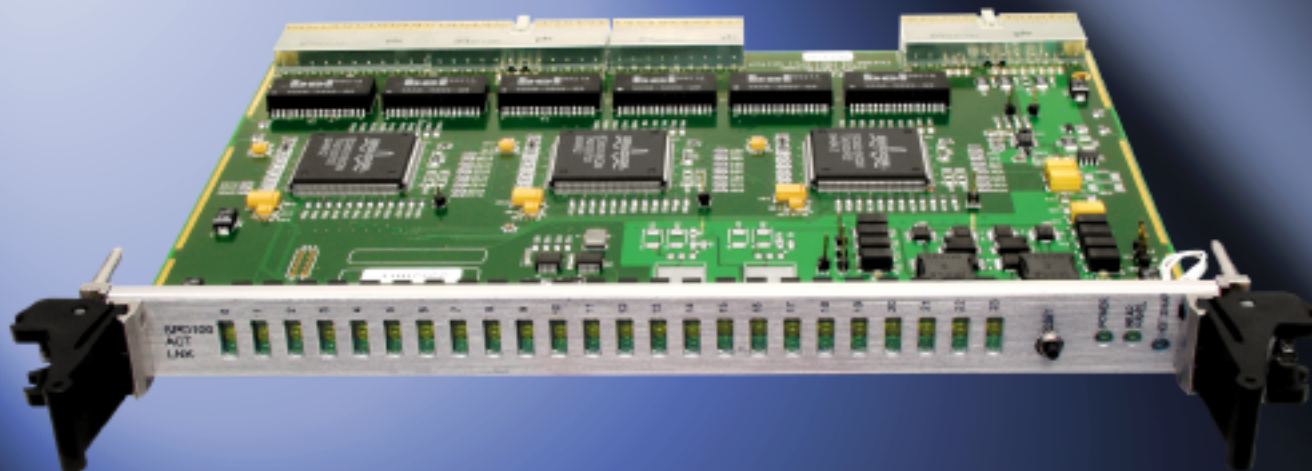
The ZX4300P CompactPCI Embedded Ethernet switch provides cost-effective and flexible solutions to Layer 2 line-rate 10/100 Mbps IP traffic switching requirements in CarrierClass applications.

Flexible
Although the ZX4300P is the first switch designed to support the upcoming PICMG 2.16 specification for packet-switched backplanes (CPSB), it can also be deployed in a standard CompactPCI chassis by using a rear transition board (RTB).

Packet-Switched Backplane
When installed in the fabric slot of a CPSB chassis, the ZX4300P includes support for the extended CPSB specification, routing all 24 10/100 ports to the backplane. It also supports the

typical 19 node CPSB, and with the addition of the ZXRTB05, routes the remaining 5 ports to rear panel RJ-45 connectors. This allows the systems architect to easily add another chassis to the switched backplane fabric.

Standard CompactPCI
The same ZX4300P may be installed in a standard CompactPCI chassis slot without an H.110 bus, and configured with rear panel I/O for all 24 10/100 ports. Options include either the ZXRTB24 dual-slot RTB with 24 RJ-45 connectors or the ZXRTB05 single-slot RTB with 5 RJ-45 connectors.

Quick and Simple
In either chassis, the ZX4300P's HotSwap and instant reconfiguration features allow rapid installation in a live system and a mean time to repair of mere seconds.

Performance & Compatibility
By using the latest switch silicon, the ZX4300P features non-blocking line-rate switching, 802.3x and back-pressure flow control. Like the ZNYX Networks OpenArchitect switches, the ZX4300P is designed for NEBS compliance and may be used with any host operating system or any host CPU including Sun SPARC, Intel x86, and Motorola PowerPC.
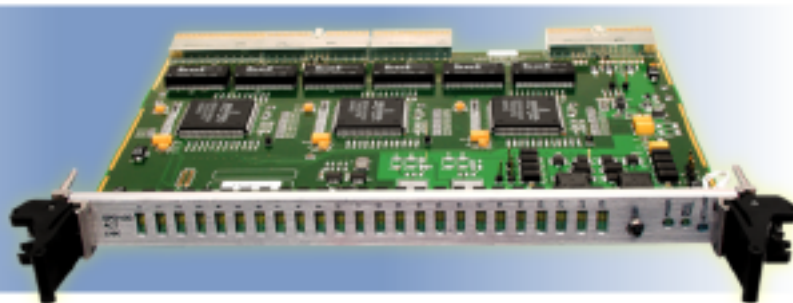
The Solution
The ZX4300P switch best satisfies the demand for high density, low cost, and high performance. It enables system architects to accelerate development of their next-generation CPSB products and achieve first-to-market deployment.

Features
- ▶ Layer 2 Switching
- ▶ Supports upcoming PICMG 2.16 CPSB specification
- ▶ Use in standard or CPSB CompactPCI chassis
- ▶ 0, 5, or 24 RJ-45 10/100 Ports on Rear Panel
- ▶ Line-rate switching
- ▶ CarrierClass + Hot Swap
- ▶ Low power consumption

ZNYX NETWORKS

ZX4300P Layer 2 CPSB Switch

Specifications

Model Numbers	ZX4300P 24-ports to Compact Packet-Switched Backplane (CPSB) The ZX4300P does not require an RTB for operation in PICMG 2.16 chassis ZXRTB05 5 ports Egress; 19 CPSB ports (requires PICMG 2.16 backplane) ZXRTB24 24 ports Egress; 0 CPSB ports (standard CompactPCI backplane)
Connectors	ZX4300P J1, J3, J4, and J5. CPSB signals via J3 and J5, plus extended fabric link on J4 for ports 20-24. RTBs ZXRTB05: 5 RJ-45. ZXRTB24: 24 RJ-45.
Media	CPSB: PICMG 2.16 draft compliant fabric slot RTB: 10BaseT: Category 3, 4 or 5 UTP; 100BaseTX: Cat 5 UTP
Bus Interface	PICMG 2.16 CPSB draft fabric slot specifications PICMG 2.1 R1.0 & R2.0, Section 2.2.2 Basic HotSwap compliant
Bus Connectors	J3, J4, and J5
Channel Speeds	Ethernet/Fast Ethernet: 10/100 or 20/200 per channel in full-duplex mode (IEEE Auto Negotiation and auto MDI/MDIX crossover)
Reliability	ZX4300P Calculated MTBF > 200,000 hours (MIL HDBK 217)
Switch Silicon	3 ASICs with integrated Phys, buffer RAM, and MACs
Power	TBD without RTB TBD with ZXRTB05 TBD with ZXRTB24
Temperature	TBD
Humidity	Maximum of 90%, non-condensing
Certifications	(pending) UL. cUL, CE
EMC/EMI	(pending) FCC Part 15; EN55022 and EN50082-1 (EN61000-3-2, -3-3, -4-2, -4-3, -4-4, -4-5, -4-6, -4-11); CISPR 22; VCCI; AS/NZS 3548; CNS 13438 - Class A
Safety	(pending) UL1950, 3rd Edition; CAN/CSA C22.2 No. 950-95; IEC 950 2nd Edition with Amdts. No. 1, 2, 3, & 4; EN60950 with Amdts. 1, 2, 3, 4, & 11; EN45001
Dimensions	160mm x 233.5mm (6U Form factor)
LEDs	Link, 100 Mbps, and activity (one per channel). Power, Rear Panel Status, Blue HotSwap Insertion/Extraction
Manufacture	Designed and manufactured in the USA
Warranty	1 (one) Year Warranty
Technical Support	Telephone, fax, email, Worldwide Web

High Availability LAN Solutions

ZNYX Networks is the leading supplier of CarrierClass CompactPCI Ethernet switches and PCI, PMC, PIM, and CompactPCI network adapters for commercial, industrial, airborne, and telephony applications:

OpenArchitect™ Ethernet switches

Layer 2 CPSB Ethernet switches

Single and multi-channel LAN adapters

RAINlink™ high availability software

Ethernet drivers for more than 18 OS's

Portable Driver Kit for custom environments

ZNYX Networks, Inc.
48421 Milmont Drive
Fremont, CA 94538   USA

Toll Free: (800) 724-0911
Tel: (510) 249-0800
Fax: (510) 656-2460
Web: www.znyx.com
E-mail: sales@znyx.com