

# ZNYX Networks<sup>TM</sup>

## CompactPCI<sup>®</sup>

### ZX420 Series Multi-Channel Fast Ethernet Adapters



The ZNYX Networks ZX420 Series is a family of Fast Ethernet adapters for CompactPCI<sup>®</sup> systems. With an innovative, integrated design, the ZX420 Series is ideal for embedded and telephony applications.

#### Fast and Wide PCI Bus

The ZX420 Series is the first multiport adapter to support a 66 MHz and 64 bit-wide PCI bus. Of course, the legacy 33 MHz or 32 bit bus is also supported.

#### Proven Design

The design of the ZX420 Series is based upon ZNYX's proven hardware and software technology. It uses the most reliable, widely supported, components in the industry. As a result, the ZX420 Series is 100% software compatible with

all the ZNYX Networks PCI, PMC, and PIM adapter and switch product families.

#### Flexibility

The ZX420 Series offers a choice of 2 or 4 Fast Ethernet channels for 3U or 6U CompactPCI slots. Multiple adapters can be used in the same system to address a broad range of Ethernet connectivity requirements.

#### Comprehensive Driver Suite

The ZX420 Series has a broad driver suite that covers popular operating systems including:

Windows NT <sup>®</sup>	BSDI
Solaris <sup>®</sup>	LynxOS <sup>®</sup>
VxWorks <sup>®</sup>	Linux
FreeBSD	

#### High Availability Networks

ZNYX's RAINlink<sup>™</sup> software provides redundant links by automatically detecting failures and switching to a backup link. RAINlink enables the construction of high availability networks where network downtime is unacceptable.

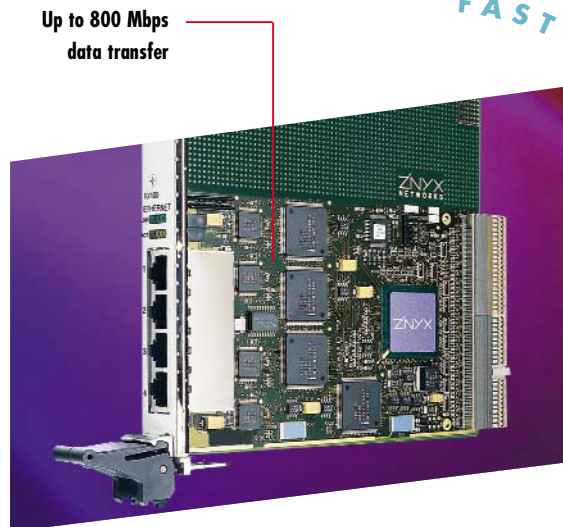
#### Link Aggregation

RAINlink software also provides link aggregation (trunking) to combine multiple Ethernet channels and adapters into a single high performance connection. RAINlink supports both system-to-system and system-to-switch trunking. ZNYX's Portable Driver Kit (PDK) is available to develop RAINlink drivers to support proprietary and other operating systems or microprocessors.



- ▶ 66 or 33 MHz bus support
- ▶ 64 or 32 bit bus connection
- ▶ 2 or 4 channels
- ▶ 3U or 6U form
- ▶ RAINlink high availability drivers

Reliable



Up to 800 Mbps  
data transfer

FAST ETHERNET ADAPTERS

Model Numbers	ZX422U3 two-channel Fast Ethernet for 3U slot ZX422U6 two-channel Fast Ethernet for 6U slot ZX424U3 four-channel Fast Ethernet for 3U slot ZX424U6 four-channel Fast Ethernet for 6U slot
Connectors	One RJ-45 per channel
Media	10BaseT: Category 3, 4 or 5 UTP; 100BaseTX: Category 5 UTP
Bus Interface	CompactPCI 2.1 Compatible
Data Transfer	PCI bus master with burst mode DMA capability
Host Channel	64 bit wide, 66MHz PCI
Channel Speeds	Ethernet/Fast Ethernet: 10/100 Mbps (20/200 per channel in full-duplex mode. IEEE Auto Negotiation)
Maximum Channels	Limited to CompactPCI slot availability
Hardware Interrupts	ZX422:PCI INT A,B; ZX424:PCI INT A,B,C,D
Reliability	ZX422 Calculated MTBF > 130,000 hours (MIL HDBK 217) ZX424 Calculated MTBF > 95,000 hours (MIL HDBK 217)
Controllers	Intel 21143-TD with Intel 21154-BC PCI bridge
Power	ZX422 - 1.0A @ 5V, 38mA @ +12V, 8mA @ - 12V ZX424 - 1.7A @ 5V, 38mA @ +12V, 8mA @ - 12V
Temperature	0 to 50°C (32 to 122°F)
Humidity	Maximum of 90%, non-condensing
Certifications	UL, cUL, CE
EMC/EMI	FCC Part 15; EN55022 and EN50082-1 (EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, ENV50204, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11); CISPR22; VCCI; AS/NZS 3548; CNS 13438 - Class A
Safety	UL 1950, 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 100mm (3U form factor); 160 x 233.5mm (6U form factor)
LEDs	Link and activity (one per channel)
Driver Support	Solaris, VxWorks, LynxOS, Linux, BSDI, FreeBSD. Portable Driver Kit available. See <a href="http://www.znyx.com">www.znyx.com</a> for latest driver information.
Manufacture	Designed and manufactured in the USA
Warranty	1 (one) Year Limited Warranty
Technical Support	Telephone, fax, email, World Wide Web

## High Availability LAN Solutions

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

- ▶ OpenArchitect Switches
- ▶ Single and multi-channel LAN adapters
- ▶ RAINlink high availability software
- ▶ Over 18 Ethernet drivers
- ▶ Portable driver kit for custom environments

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