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ZNYX Networks™

CompactPCI®

ZX420 Series Multi-Channel Fast Ethernet Adapters



The ZNYX Networks ZX420 Series is a family of Fast Ethernet adapters for CompactPCI® 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® | BSDI |
| Solaris® | LynxOS® |
| VxWorks® | Linux |
| FreeBSD | |

High Availability Networks

ZNYX's RAINlink™ 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

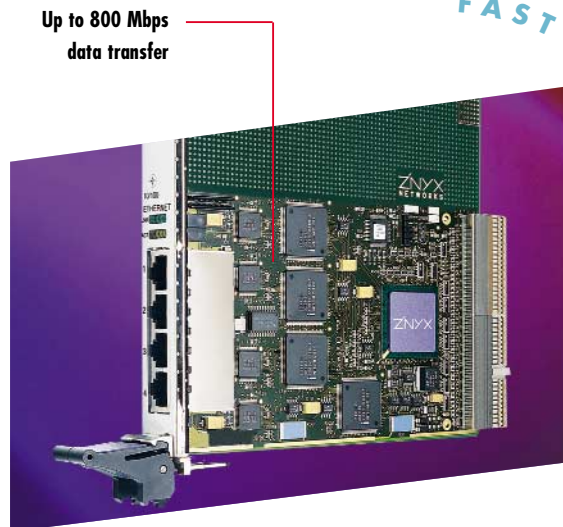
RAINlink software also provides link aggregation (trunking) to combine multiple Ethernet channels and adapters into a single high performance connection. RAINlink supports both system-to-system and system-to-switch trunking. ZNYX's Portable Driver Kit (PDK) is available to develop RAINlink drivers to 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 www.znyx.com 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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