

P230TX

PCI Dual Fast Ethernet Card
32/64-bit, 33/66 MHz
DATASHEET

AEI's P230TX High Performance Fast Ethernet adapter offers combined density, and maximum Fast Ethernet connectivity for Windows or UNIX server environments.

- ❑ Two 10/100Base-Tx Ethernet ports
- ❑ Standard PCI bracket, optional Low Profile
- ❑ Copper RJ-45 UTP connectivity
Up to 100 meters.
- ❑ PCI 32/64-bit, 33 MHz
- ❑ Auto-negotiation
- ❑ Device Drivers
 - Windows
 - HP-UX
 - Solaris (x86 & SPARC)
 - Linux
 - FreeBSD
 - NetWare
 - OpenBSD
 - VxWorks
 - and more, call for details
- ❑ PCI 2.1 compliant and compatible with
PCI 2.2 and PCI-X slots
- ❑ Advanced Server Features
 - Trunking (Layers 1, 3 & 4)
 - Active Port Failover
 - Adaptive/Dynamic Load Balancing
 - (not available on all platforms)
- ❑ Compatible with Cisco EtherChannel,
SunTrunking, and all industry trunking
algorithms.



Consolidate multiple server 10/100 Mbps ports onto a single network interface card (NIC). The P230TX is ideal for small and large office application and database servers requiring high speed, high reliability, and Fault Tolerance.

A swappable low profile PCI bracket allows this adapter to fit in high-density rackmount 1U and 2U servers. The card fits vertically in 2U servers, thus eliminating the need and expense of riser cards.

Unlike 'Redundant Port Failover' where one port sits idle until an interrupt is received, Active Port Failover transmits data on both ports thereby doubling bandwidth between the server and switch. AEI's PacketEngine failover solution automatically detects network link failures, and switches traffic over to an "active" redundant link, part of a failover group, in a matter of milliseconds. Unlike conventional failover solutions, PacketEngine's fast failover eliminates the need to reconfigure the network protocol stack and the relearning process of layer 2 MAC addresses by clients to reestablish a network link after a failure. This sub-second failover provides transparent network link recovery from cable, port, or adapter faults.

In a server environment, performance is critical. The P230TX has been tested at 99.9% of wire speed. When compared to other competitors' Fast Ethernet cards that performed as low as 30% of wire speed, we can confidently make the claim the P230TX outperforms the competition by up to 300%. When tested against higher-end 64-bit alternatives, again the P230TX outperformed the competition.

Its cross platform support offers a more rugged design, higher-end components, and improved filtering. This translates to cleaner signal integrity, higher performance, and higher reliability. Furthermore, all resistors and capacitors are low profile surface mount. This eliminates the possibility of catching internal cabling and subsequently damaging key components on the board.

With PacketEngine Software, all ports can be trunked based on the Physical Layer, network protocols (http, ftp, SMTP), socket, and/or IP Address. With all ports trunked, the P230TX offers aggregate full duplex bandwidth of 400Mbps.

Fault Tolerance and High Reliability. No one offers a more comprehensive advanced server suite than AEI. That's why Tier-1 and Tier-2 OEMs, system integrators, and others choose AEI.



Dual Port 10/100 Fast Ethernet Adapter

SPECIFICATIONS:

Part Numbers:	P230TX
Number of Ports	Two RJ-45 10/100 ports, with optional full duplex operation up to 200 Mbps per port
Ethernet Controller	Two Intel 21143 with Intel 21152 Transparent Bridge Chip
Network Topology	10Base-T, 100Base-Tx Auto-Negotiation (NWay) (Tested at 99.9% of wire speed, actual performance may vary)
Standards	IEEE 802.3, 802.3u, 802.3x (Flow Control), 802.1Q(VLANs), and 802ad
Protocols	CSMA/CD Ethernet
Bus Type	PCI 2.1, compatible up to PCI 2.2 and PCI-X
Slot Type	32/64-bit, 33 MHz, 3.3/5V
Bus Mastering	32-bit mastering reduces CPU utilization.
LED's	ACTIVITY, 100 Mbps, and LINK
Parallel Detection	Yes
Device Drivers	Windows * Novell NetWare Linux * Sun Solaris (x86 & SPARC) HP-UX (PA-RISC) IRIX (Call) FreeBSD and OpenBSD VxWorks * Other drivers available, call for details. Boot ROM Support for Solaris, Windows, Linux, and other popular OS versions.
Dimensions	2.366 inches (H) x 6.8 inches (L)
Environmental	Temperature: 0 to 60C Humidity: 5% to 90%, non-condensing Altitude: Up to 3,048 meters
Emmissions	FCC Class B, Part 15 and CE compliant

* Device Drivers are built into the operating system. PacketEngine users must install the AEI driver.

Specifications subject to change without notice. Contact AEI for complete technical detail, configuration options, and ordering information. All brands, products, and logos are trademarks of their respective holders.



AEI Intelligent Technologies
PO Box 890955
Temecula, CA 92590 (USA)
Tel. 909-296-2022
Fax 909-296-2025
<http://aei-it.com>