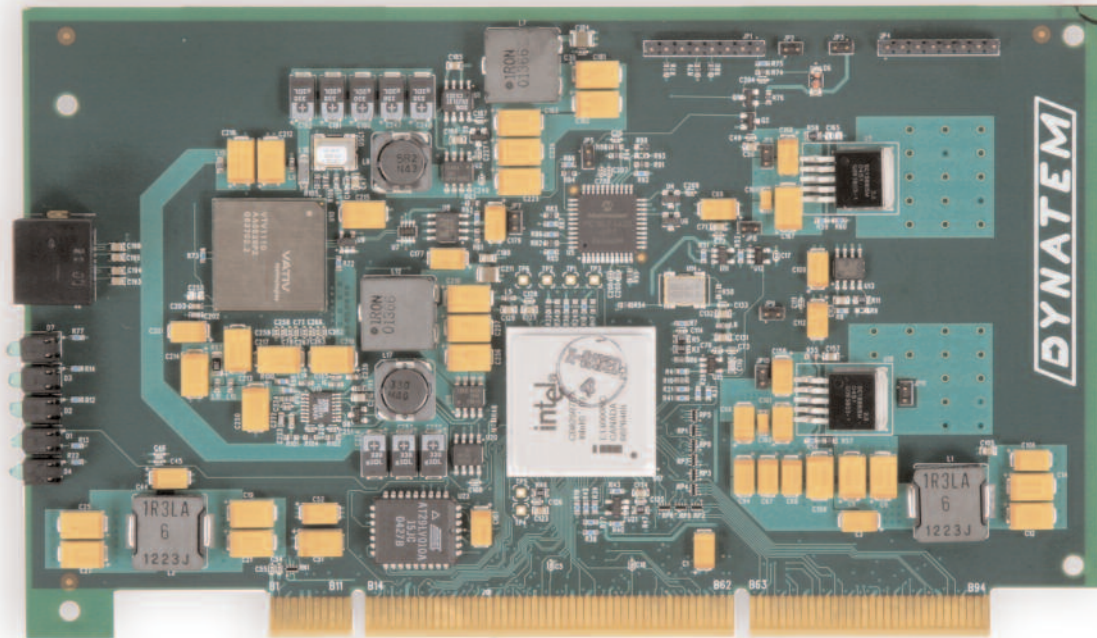




10-Gigabit Ethernet over Copper (UTP Cabling) NIC



MaxCU

The MaxCU PCI NIC offers the highest throughput Ethernet performance in the world today. This new product will allow datacenters to use low-cost CAT5e/CAT6 cabling for 10GbE stacking and short-reach links (CAT5e and CAT6). Until now, only fiber optic 10GbE NIC solutions existed. Those short-reach fiber optic NICs cost 30% more than our copper NIC and installed costs are DRAMATICALLY reduced based on materials and installation time. MaxCu also consumes 50% less power than its fiber optic relatives.

The Dynatem MaxCU 10GbE Server Adapter is the industries first generation of 10 Gigabit Ethernet adapters which enables the fastest Ethernet connectivity available at approximately half the cost and half the power consumption of its fiber optic short-reach based relatives. The Dynatem MaxCu/10GbE Server Adapter delivers industry-leading performance to bandwidth-intensive applications using a highly integrated PCI-X Intel 82597EX 133 MHz/64-bit 10GbE controller coupled with the most functional copper PHY on the market to today from Vativ Technologies, the V10LAN transceiver/PHY. High-speed server connectivity once reserved for costly proprietary technologies such as high-performance computing clusters and grid-based computing, can now be achieved with the Dynatem MaxCu/10GbE Server Adapter.

MaxCU Features:

- Bi-directional error free data
- Fat Packet (Jumbo Frame) Support
- PCI Adaptive DMA
- PCI Bus Master
- Dual Onboard 32 Bit RISC Processor
- Supports standard CAT5e/CAT6 UTP cable with RJ-45 connector
- CAT5e/CAT6 up to 10 Meters
- Supports LANs and SANs 10GbE over copper PCI-X (64 bit/ 133 MHz) Network Interface Card (NIC)

Ethernet Controller

Intel's 82597EX is IEEE 802.3ae compliant for 10 Gigabits

32/64-bit 33/66/133 MHz, PCI Revision 2.3 compliant and PCI-X addendum, Rev. 1.0a compliant from 50 to 133 MHz

Flow control with send/receive PAUSE frames and receive FIFO thresholds

TCP segmentation and TCP/UDP/IP checksum offloading

Physical Interface

Vativ Technologies' V10LAN enables 10 Gb bi-directional error-free data

Transfers over UTP/CAT-5e/6 cable

Connects directly to the Ethernet Controller through a XAUI interface

I/O Interface

Connects to copper cable with an RJ45 connector and indicator LEDs are visible on front panel

Performance Features

10/100/1000 Base-T

PCI/PCI-X Clock 33/66/133 MHz

PCI Burst Rate 132/264 MB/Sec.

PCI Data/Address 32/64 Bits

PCI Modes Master/Slave, Adaptive DMA

Standards Compatibility

Gigabit Ethernet per IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3ak

PCI Local Bus Rev. 2.1

Power Characteristics

Operating Voltage +5 VDC +/- 5%

Current Consumption 4.0 A

Power Consumption less than 9 Watts

Mechanical Specifications

Length 6.6 in.

Width 3.75 in.

Environmental Specifications

Operating Temperature 0° - 55°C

Humidity 5-95%

Non-Condensing

Storage Temperature -40° - 85°C

Certifications

FCC Class B, VCCI Class B; CE, UL 1950, CUL, TUV

Software

Supported by Windows 2000, 2003, and XP and Linux

Ordering Information:

<u>Part#</u>	<u>Description</u>
PCIX-MAXCU	10 Gb Ethernet over Copper PCI-X Module