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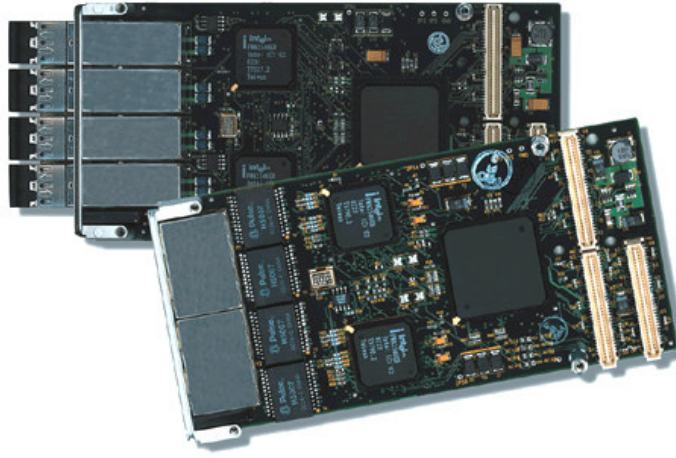
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8710 Dual Port Gigabit Ethernet PMC



- Two auto-negotiating 10/100/1000 Ethernet ports
- Dual Intel 82546 MAC/PHYs on single PMC slot
- PCI 2.2 33/66 MHz and 32/64-bit bus interface
- Link and activity LEDs
- Drivers for Linux, Solaris, and Windows
- **8710-GC** (copper version)
 - Two RJ-45 copper connections
 - Auto sensing speed, simplex/duplex, flow control, and detection of polarity and cable lengths
- **8710-GF** (fiber version)
 - Two fiber optic LC, VF-45 or MT-RJ connections
 - Supports long reach and short reach wavelength transceivers
- Full compliance to IEEE 802.3z

The 8710, two-port Gigabit Ethernet module delivers cost-effective solutions for expanding I/O on VME, PCI, and CompactPCI carrier platforms. Offered in copper and fiber versions, these high-performance adapters are designed for embedded applications requiring 10/100/1000 Mbit Ethernet connectivity.

The 8710 modules provide full Gigabit Ethernet LAN connectivity by terminating two Gigabit Ethernet circuits at the adapter card itself. Operating at 1000 Mbps, Gigabit Ethernet lines are the most effective and widely used means for providing high-speed local area network solutions. The 8710-4GC adapter supports two IEEE 802.3ab compliant connections over 1000baseT Category 5 copper wire through industry standard RJ45 connectors. The 8710-4GF supports two IEEE 802.3z compliant connections over 1000baseSX/EX over 850 or 1310 nm single or multi-mode fiber through industry standard Small Form Factor (SFF) LC, VF-45, or MT-RJ connectors.

The standard long reach drive is 10 kilometers. For extended reach options, please contact the factory.

The 8710-Gx can auto-sense speed, simplex, duplex, and flow control, and detects polarity (no need for cross over cables) and cable lengths. Both 8710 modules cache up to 64 packet descriptors in a single burst, and their state-of-the-art DSPs implement digital adaptive equalization as well as echo, cross-talk and baseline wander cancellation allowing 1000 Mbps performance in noisy environments.

The 8710-2GC and 8710-2GF are ideal candidates for use in today's converged, variable packet size, multi-protocol networks that require maximum port density, including performance intensive applications such as streaming media, network attached storage, routers/switches, VoIP and media gateways, storage area networks, digital imaging, data acquisition processors, and enterprise servers.

Specifications

FormFactor

Single wide PMC, per IEEE 1386.1

EthernetController

Intel 82546EB
IEEE 802.3
IEEE 802.3ab
IEEE 802.1QVLAN

PCIBusCharacteristics

Signaling 3.3V
Specification 2.2
Speed 33/66MHZ
Width 32-bit

PowerRequirements

> 7.5W
3.3 V

EnvironmentalSpecifications

Temperature

Operating -5 to 60°C
Storage -40 to 70°C
Humidity
Operating: 5 to 90% non-condensing
Storage: 0 to 95% non-condensing

Certifications

FCC: Part 15 Class A (pending)
UL 1950, Listed Accessory (pending)
CS003 (pending)
CS03 (pending)

Drivers

Linux
Windows*
Solaris*
• Available upon request

OrderInformation

8710-GC	Dual port Gigabit Ethernet Copper
8710-GF-LH	Dual port Gigabit Ethernet Copper, long haul
8710-GF-SH	Dual port Gigabit Ethernet Copper, short haul

ACT/Technico, a division of Advanced Control Technology, Inc.
One Ivybrook Blvd., Suite 180, Ivyland, PA 18974 Tel (215) 957-9102 Fax (215) 957-9074

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