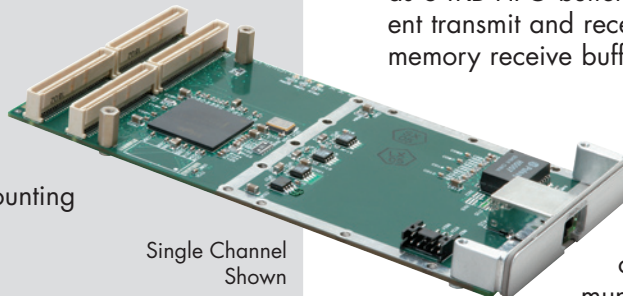




Gigabit Ethernet PGE2 PMC

- ◆ Dual, independent Gigabit Ethernet channels
- ◆ Multi-network compatibility: 1000BASE-T /100BASE-TX & 10BASE-T
- ◆ Auto detect PHY for 10/100/1000 Base-Tx
- ◆ Full and half duplex communication
- ◆ RJ-45 connectors
- ◆ Front or rear panel mounting
- ◆ PCI 2.2 compliant
- ◆ PCI-X 1.0a compliant
- ◆ Air- or conduction-cooled
- ◆ VxWorks® or Linux™



Single Channel
Shown

Fast Ethernet Communication

The PGE2 offers single or dual Gigabit Ethernet channels to support bandwidth intensive, multi-protocol networks. Fully backward compatible with 10 and 100BASE-TX networks, the PGE2 provides seamless integration between your existing Ethernet hardware and higher performance Gigabit Ethernet devices.

The PGE2 features the high-performance Intel® 82546EB Gigabit Ethernet Controller with fully integrated MAC/SERDES functionality. The chip architecture is optimized to deliver improved bus efficiency by providing advanced features such as 64KB FIFO buffer memory per port, low-latency, independent transmit and receive queues, and programmable host memory receive buffers and cache line size.

Easy, Flexible Configuration

Auto-negotiation per IEEE 802.3ab lets the PGE2 link to your hub and automatically configure for data rate, duplex communication type, and flow control. The PGE2 can operate at either full or half duplex. Flow control provides Xon/Xoff interruption of synchronous PCI communication, enabling efficiently integrated VME data flow. The module supports either front or rear connection, using standard RJ-45 connectors and four-pair, Category 5 cabling.

Software Support

Intel provides Linux drivers for its 82546EB Ethernet device supporting both Linux 2.2x and 2.4x. WindRiver includes drivers for VxWorks systems in the latest release of its Tornado development platform.

For more information on our broad range of high-integrity computing solutions, please visit our website at www.cwembedded.com.

**CURTISS
WRIGHT** Controls
Embedded Computing



Gigabit Ethernet PGE2 PMC

Ethernet Interface

- ◆ Single or dual 10/100/1000BaseTX (RJ-45 connectors)

PCI Interface

- ◆ 32- or 64-bit/66 MHz, auto-switch to 33 MHz

O/S Support

- ◆ Linux
- ◆ VxWorks

Physical Dimensions

- ◆ 2.91" (74mm) x 5.86" (149mm)

Weight

- ◆ 3.5 oz.

Power

- ◆ .43 A @ 3.3v (1.42 W)

Environmental

- ◆ Standard operating temp.: 0° to +50° C
- ◆ Extended range: -40° to +71° C (ambient with forced air cooling)
- ◆ Optional conduction-cooling: -40° to +85° C
- ◆ Storage temperature: -50° to +100° C
- ◆ Humidity: 10-95% RH non-condensing

Configuration Options

Air-cooled

- ◆ One/two front or one/two rear panel connectors*
- ◆ Copper interface
- ◆ Non-stacking or stacking**

Conduction-cooled

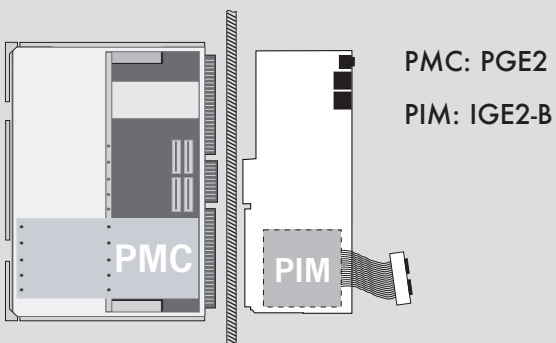
- ◆ One/two rear panel connectors*
- ◆ Copper interface only

* PIM carrier transition board and corresponding PIM card are available for rear panel I/O option.

** Stacking option allows the connection of a Curtiss-Wright PMC carrier board in addition to the PMC module.

PIM Carrier Transition Module

Rear I/O option for lab use.



Curtiss-Wright offers PIM Carrier Transition Modules for many of its contemporary single-board computers. Each module matches the I/O and PMC configurations offered on the SBC, providing easy connectivity for rear-routed I/O.

Corresponding PIM modules are available for a variety of PMC modules.

Visit our website for a complete product listing.

SBC PCI Bus 64-bit, 66 MHz

