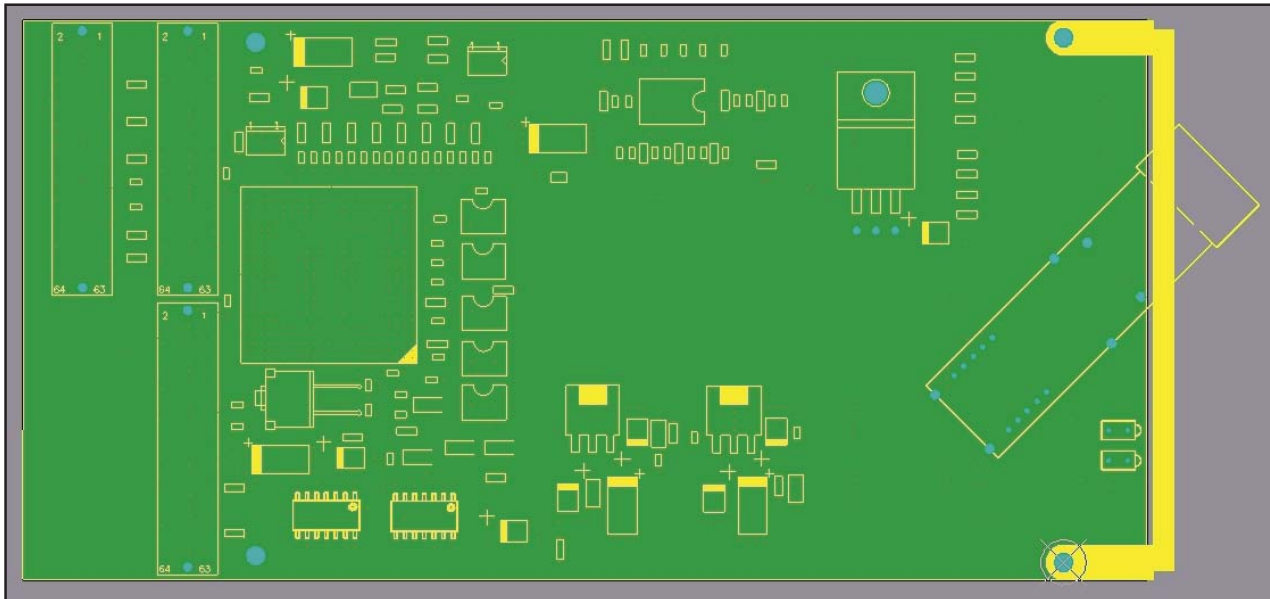


► Gigabit Ethernet PMC Adapter

The Gigabit Ethernet Adapter provides a 10/100/1000 Mbps Ethernet communication link on fibre media and is available in the following industry standard compliant formfactor :

- PMC
 - Air-cooled PMC adapter with frontpanel I/O (IEEE Std 1386.1-2001)



Gigabit Ethernet PMC Adapter

Architecture

The Gigabit PMC Ethernet Adapter uses a custom intelligent ASIC for the control of the Gigabit Ethernet MACs (Media Access Controllers). The ASIC removes protocol processing overhead from the host processor, ensuring a higher net data throughput.

The ASIC also incorporates Virtual Cable Tester (VCT) technology for advanced cable diagnostics. VCT enables the system to pinpoint the location of cabling issues down to a meter or less, reducing network installation and support costs.

Features

- An advanced ASIC removes protocol processing overhead from the host processor, maximising the net data throughput
- High data transmission rate
- Compliant to IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet) and IEEE 802.3ab (Gigabit Ethernet)



► Gigabit Ethernet PMC Adapter

I/O Media Types

The adapter supports all of the following I/O media types :

- 1000BASE-SX : Gigabit Ethernet using multimode fibre media and a 850 nm wavelength, over distances of at least 200 m
- 1000BASE-LX : Gigabit Ethernet using singlemode fibre media and a 1 270 to 1 355 nm wavelength, over distances of at least 2 km

Applications

- Distributed real-time applications in harsh environments
- Mission-critical applications
- Avionics, Vetronics
- High-speed sensor integration
- High-performance multimedia applications
- Distributed digital voice and video applications

Specifications	
Bus Interface	64-bit, 33 MHz PCI-bus (32-bit compatible) Electrically : PCI Rev. 2.3
Interfaces	1000BASE-SX or 1000BASE-LX
I/O Addresses	Automatically assigned to the slot by PCI Rev. 2.3 Plug-and-Play
Interrupts	PCI INT A
Power	Universal Card (+3,3 V and +5 V compatible) 550 mA @ 5 V
Software	Various software drivers offered including for VxWorks, Linux, Solaris, Windows 2000, Windows XP and Windows 2003 operating systems as standard; others are costed options
Protocols	- MAC - IP - TCP/IP - UDP/IP
Supporting Tools	Sample driver usage software (C/C++ source code)
Standard Compliance	- IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet) and IEEE 802.3ab (Gigabit Ethernet) - Compliant to IEEE 802.3x (flow control support) - IEEE 802.1p support (QoS)



► Gigabit Ethernet PMC Adapter

Characteristics		
Formfactor	Dimensions	Weight
PMC	149,0 mm x 74,0 mm x 13,5 mm	105 g +/- 10 g

Reliability				
MTBF	Figures according to MIL-HDBK-217F, Parts Stress Method			
	Ground, Mobile Naval, Sheltered Airborne, Inhabited Cargo	T _j = 65 C T _j = 60 C T _j = 75 C	T _a = 45 C T _a = 40 C T _a = 55 C	25 000 hrs 35 000 hrs 25 000 hrs

Environmental Specifications			
	Commercial Grade	Industrial Grade	Ruggedised/Conduction-Cooled Grade
Temperature - Operating - Storage	0 C to +55 C -40 C to +85 C	-15 C to +75 C -50 C to +85 C	-40 C to + 85 C -60 C to +125 C
Humidity	0% - 90%	0% - 95%	0% - 95%
Shock	N/A	30 g peak for 11 ms	40 g peak for 11 ms
Vibration - Sine - Random	2 g (peak) 10 Hz to 100 Hz 0,04 g ² /Hz at 15 Hz to 2 kHz	10 g (peak) 5 Hz to 2 kHz 0,1 g ² /Hz at 15 Hz to 2 kHz	10 g (peak) 5 Hz to 2 kHz 0,1 g ² /Hz at 15 Hz to 2 kHz

Part Selector				
Part Designation	Formfactor	Grade	I/O Connector Type	I/O Media Type
CCII/GNET/PMC/1P/SX/FP1/COM CCII/GNET/PMC/1P/SX/FP1/IND CCII/GNET/PMC/1P/SX/FP1/RGD	PMC PMC PMC	Commercial Industrial Ruggedised	SFF/LC Connector SFF/LC Connector SFF/LC Connector	Fibre, Multimode Fibre, Multimode Fibre, Multimode
CCII/GNET/PMC/1P/LX/FP1/COM CCII/GNET/PMC/1P/LX/FP1/IND CCII/GNET/PMC/1P/LX/FP1/RGD	PMC PMC PMC	Commercial Industrial Ruggedised	SFF/LC Connector SFF/LC Connector SFF/LC Connector	Fibre, Singlemode Fibre, Singlemode Fibre, Singlemode