



► Dual ATM PMC Adapter

The Dual ATM PMC (PCI Mezzanine Card) Adapter provides dual 155 Mbps communications links. The adapter is available in both conduction-cooled (CC) and air-cooled versions : ruggedised, industrial and commercial.

Architecture

The Dual ATM PMC Adapter uses a Motorola PowerQUICC II Integrated PowerPC Microprocessor as communication controller. The PowerQUICC II processor can easily be configured to implement user protocols and/or user application specific functions, thus allowing the Dual ATM PMC Adapter to keep up with technological advances.

The dual intelligent communication processor remove protocol processing overhead from the host carrier processor thus allowing for higher network data throughput.

Features

High data transmission rate, efficiency and cost-effectiveness make this card ideal for high throughput communication links. A Motorola PowerQUICC II processor acts as the communication front-end and allows the use of a wide range of communication protocols, as well as intelligent management and status reporting of interfaces.

Conduction-Cooling

The conduction-cooled Dual ATM PMC Adapter conforms to the CCPMC (Conduction-Cooled PCI Mezzanine Card) Standard, namely ANSI/VITA 20-2001

Applications

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



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Dual ATM PMC Adapter Specifications

Bus Interface	32-bit PCI-bus Electrically : PCI Rev. 2.2 Mechanically : Single CMC formfactor IEEE P1386
Number of Interfaces	Two 155 Mbps interfaces
Controller	Motorola PowerQUICC II - Integrated PowerPC Microprocessor
I/O Options	Front-panel and rear connector I/O
Interrupts	Automatic depending on PCI slot (bus master)
Power Requirements	+5 V at 0,8 A
MTBF	Figures according to MIL-HDBK-217F, Parts Count Method (Predicted) : Ground, Mobile $T_j = 65\text{ C}, T_a = 45\text{ C}$ 30 000 hours (Approx) Naval, Sheltered $T_j = 60\text{ C}, T_a = 40\text{ C}$ 40 000 hours (Approx) Airborne, Inhabited Cargo $T_j = 75\text{ C}, T_a = 55\text{ C}$ 30 000 hours (Approx)
Software Drivers	<ul style="list-style-type: none"> VxWorks Linux Optional : Solaris, QNX, AIX, Windows 2000, LynuxOS
Protocols	<ul style="list-style-type: none"> MAC AAL5, AAL1, AAL0 Protocols Various additional operating system network protocols using supplied standard driver Optional : UNI V3.x and V4.0 Signalling
Supporting Tools	Sample driver usage software (C/C++ source code).

Environmental Specifications

	Commercial	Industrial	Ruggedised/Conduction-Cooled
Temperature			
- Operating	0 C to +55 C	-15 C to +75 C	-40 C to + 85 C
- Storage	-40 C to +85 C	-50 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	2 g (peak) 10 Hz to 100 Hz	10 g (peak) 5 Hz to 2 kHz	10 g (peak) 5 Hz to 2 kHz
- Random	0,04 g²/Hz at 15 Hz to 2 kHz	0,1 g²/Hz at 15 Hz to 2 kHz	0,1 g²/Hz at 15 Hz to 2 kHz

Designations

CCII/ATM/PMC/2P/SC/COM	Dual Link, Multimode Fibre I/O, SC Connector, Commercial Grade, FR4 PCB
CCII/ATM/PMC/2P/SC/IND	Dual Link, Multimode Fibre I/O, SC Connector, Industrial Grade, FR4 PCB
CCII/ATM/PMC/2P/SC/RDG	Dual Link, Multimode Fibre I/O, SC Connector,, Ruggedised Grade, Polyimide PCB
CCII/ATM/PMC/2P/RJ/COM	Dual Link, UTP, RJ45, Commercial Grade, FR4 PCB
CCII/ATM/PMC/2P/RJ/IND	Dual Link, UTP, RJ45, Industrial Grade, FR4 PCB
CCII/ATM/PMC/2P/RJ/RGD	Dual Link, UTP, RJ45, Ruggedised Grade, Polyimide PCB
CCII/ATM/PMC/2P/BP/CC	Dual Link, UTP, Backplane I/O, Conduction-Cooled, Polyimide PCB