



► Universal Telecomms Adapter

The Universal Telecomms Adapter is an intelligent I/O adapter that uses a Motorola PowerQUICC II Integrated PowerPC Microprocessor as communication controller and offers various E1/T1, E3/T3, Fast Ethernet, ATM and serial I/O options.

The adapter is available in the following industry standard compliant formfactors :

- PMC
 - Air-cooled PMC adapter with frontpanel I/O (IEEE Std 1386.1-2001)
 - Conduction-Cooled PMC (CCPMC) adapter with backplane I/O (ANSI/VITA 20-2001)
- PCI-104 (PCI-104 v2.0)
- PCI (PCI Local Bus Specification Rev. 2.3)

Features

- Exact functionality can be tailored to meet customer requirements with I/O channels only being limited by the number of available I/O connector pins
- Commercial, Industrial and Ruggedised PMC, PCI-104 and PCI adapters offer I/O over either twisted pair or optical fibre media (Conduction-Cooled PMC offers I/O over twisted pair media only)

Specifications	
Bus Interface	32-bit, 33/66 MHz Electrically : PCI Rev.2.2, 3,3 V signalling
I/O Addresses	Automatically assigned to the slot by PCI Rev. 2.2 Plug-and-Play
EEPROM	EEPROM for board ID (Plug-and-Play) and configuration options
Interrupt	PCI INT A
DMA	Automatic depending on PCI slot
I/O Options	Frontpanel or backplane I/O options with various rear connector PMC Jn4 pin assignments
CPU	Motorola PowerQUICC I Integrated PowerPC Microprocessor
Power (Preliminary)	3,3 V at 1,4 A 12 V at 1 mA
Software	Various software drivers offered including for VxWorks and Linux operating Systems as standard; others are costed options

Characteristics		
Formfactor	Dimensions	Mass (Preliminary)
PMC (IEEE Std 1386.1-2001)	149,00 mm x 74,00 mm, conforming to CMC envelope	< 100 g
CCPMC (ANSI/VITA 20-2001)	143,65 mm x 74,00 mm, conforming to VITA 20 envelope	80 g +/- 5 g
PCI-104 (PCI-104 v2.0)	95,89 mm x 90,17 mm x 23,80 mm	90 g +/- 5 g
PCI (PCI Local Bus Specification Rev.2.3)	160,12 mm x 106,62 mm	120 g +/- 5 g

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Board-Level



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Reliability			
MTBF (Preliminary)	Figures according to MIL-HDBK-217F, Parts Stress Method		
	Ground, Mobile	T _a = 45 C	23 000 hrs
	Naval, Sheltered	T _a = 40 C	37 000 hrs
	Airborne, Inhabited Cargo	T _a = 55 C	28 000 hrs

Environmental Specifications			
	Commercial Grade	Industrial Grade	Conduction-Cooled/Ruggedised Grade
Temperature - Operating - Storage	0 C to +55 C -40 C to +85 C	-15 C to +75 C -40 C to +85 C	-40 C to +85 C -55 C to +125 C
Humidity	0% to 90%	0% to 95%	0% to 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