

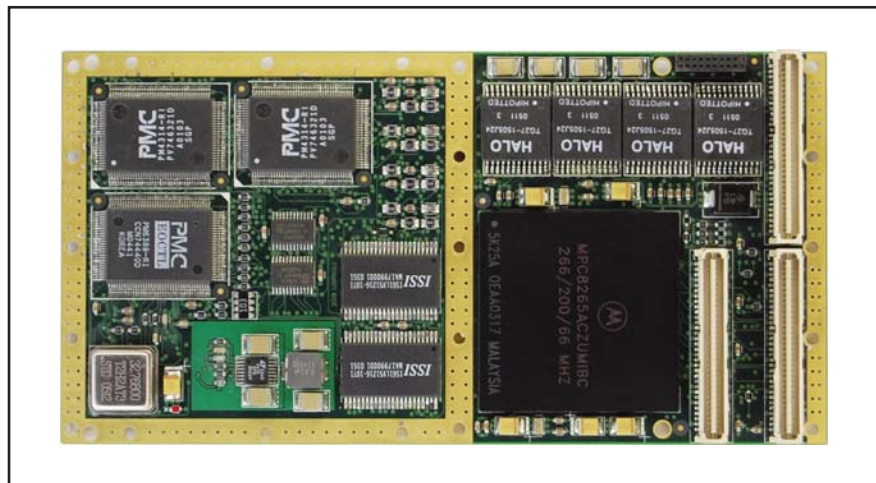
► 8-Channel E1/T1 Telecomms Adapters

The 8-Channel E1/T1 Telecomms Adapters are intelligent I/O adapters with onboard processing using a Motorola PowerQUICC II Integrated PowerPC Microprocessor as communication controller and offering eight E1/T1 telecommunications channels, as well as two channels of simultaneous, high-speed, bi-directional RS422 serial communications (>10 Mbit/s) and two channels of simultaneous, bi-directional RS232 UART (Universal Asynchronous Receiver/Transmitter) serial communications.

The E1 option has been verified against the Sangoma A101c (channelised E1 card) and the Digium Wildcard E100P.

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

- PMC
 - Air-cooled PMC with frontpanel I/O (IEEE Std 1386.1-2001)
 - Conduction-Cooled PMC (CCPMC) with backplane I/O (ANSI/VITA 20-2001)
- PCI-104 (PCI-104 v2.0)
- PCI (PCI Local Bus Specification Rev.2.2)



8-Channel E1/T1 Telecomms PMC Adapter

Features

- Exact functionality can be tailored to meet customer requirements
- Frontpanel and backplane I/O options with various rear connector PMC Jn4 I/O pin assignments
- Conduction-Cooled version has rear connector I/O only



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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 II Integrated PowerPC Microprocessor
Power	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	Weight
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

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



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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 g²/Hz at 15 Hz to 2 kHz	10 g (peak) 5 Hz to 2 kHz 0,1 g²/Hz at 15 Hz to 2 kHz	10 g (peak) 5 Hz to 2 kHz 0,1 g²/Hz at 15 Hz to 2 kHz

Part Selector			
Part Designation	Formfactor	Grade	I/O Options
CCII/UTA/PMC/8E12H2U/FP/COM	PMC	Commercial	Frontpanel or Backplane I/O
CCII/UTA/PMC/8E12H2U/FP/IND	PMC	Industrial	Frontpanel or Backplane I/O
CCII/UTA/PMC/8E12H2U/FP/RGD	PMC	Ruggedised	Frontpanel or Backplane I/O
CCII/UTA/PMC/8E12H2U/BP/CC	CCPMC	Conduction-Cooled	Backplane I/O
CCII/UTA/PC104/8E12H2U/FP/COM	PCI-104	Commercial	Frontpanel I/O
CCII/UTA/PC104/8E12H2U/FP/IND	PCI-104	Industrial	Frontpanel I/O
CCII/UTA/PC104/8E12H2U/FP/RGD	PCI-104	Ruggedised	Frontpanel I/O
CCII/UTA/PCI/8E12H2U/FP/COM	PCI	Commercial	Frontpanel I/O
CCII/UTA/PCI/8E12H2U/FP/IND	PCI	Industrial	Frontpanel I/O
CCII/UTA/PCI/8E12H2U/FP/RGD	PCI	Ruggedised	Frontpanel I/O

Board-Level 8-Channel E1/T1 Telecomms