RadiSys®
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DATASHEET

FEATURE SUMMARY

- Four T1/E1/J1 line interfaces, electronically configurable
- Texas Instruments TMS320C62x DSP (6203) complexe
  - 250MHz, 2000MIPS
  - 512KB external SBSRAM (1MB-2MB options available)
- 32-bit PCI, PMC interface
- H.100 support via H.100 TDM switch & H.100 interface connector
- H.110 support via attachment to CompactPCI base adapter
- Single PMC form factor
- Front I/O and rear I/O via rear transition module
- Rear transition module
  - Allows up to two PMCs to be attached
  - CSU/DSU capability
  - Two base card Ethernet ports

ARTIC DSP PCI MEZZANINE CARD

4-Port T1/E1/J1 DSP PCI Mezzanine Card

The ARTIC 4-Port T1/E1/J1 DSP PCI Mezzanine Card is a single non-extended PCI Mezzanine Card (PMC) sized daughtercard designed for use with PMC compatible base adapters. This PMC provides OEMs, integrators, and end-users with four ports of 1.544Mbps (T1) or 2.048Mbps (E1) compatible interfaces which will process data to and from the host system or route data between the ports.

The ARTIC 4-Port T1/E1/J1 DSP PMC can route channels between the four T1/E1/J1 ports and can process the data of any channel of a T1/E1/J1 port up to 128 channels. The ARTIC 4-Port T1/E1/J1 DSP PMC has four RJ-48 connectors for attachment to a user-supplied cable.

The Texas Instruments 'C6X DSP complex, operating at 250MHz, 2000MIPS, handles data manipulation and low level communications protocols. Its processing power allows protocol execution directly on the PMC without utilizing host bandwidth. By offloading the low-level communications activity from the host, overall system performance can be increased.

The ARTIC 4-Port T1/E1/J1 DSP PMC can also route H.100 TDM data through the H.100 interface connector and H.100 TDM switch. It can also transfer H.110 data when mated with a CompactPCI base adapter.

An 8-port Rear Transition Module (RTM) specially designed to be used with this PMC and the ARTIC 1000 CompactPCI I/O Platform is also available. This RTM supports up to two ARTIC 4-Port T1/E1/J1 DSP PMC's and provides rear-panel I/O with rear panel access to eight T1/E1/J1 ports and two independent 10/100BaseTX Ethernet ports.

The ARTIC 4-Port T1/E1/J1 DSP PMC is ideal for processor-intensive telephony applications such as those found in telecom switching equipment, including SS7, ATM over T1 as well as high-speed wide area networking protocols such as Frame Relay and HDLC.

ARTIC DSP PCI Mezzanine Card Specifications

FEATURE	FUNCTION	DESCRIPTION
Board Style	-	Single non-extended PMC
Board Size	Length	149mm (5.87")
	Width	74mm (2.91")
RTM Size	Length x Width	233mm (9.18") x 80mm (3.14")
Environment	Operating Temp.	0° to 55°C
	Humidity	5 - 95%
Power Requirements	+3.3 V DC	1.0 A max
Protocol Support	-	SS7 MTP-2, HSL, Frame Relay, Async, Bisync
Connectors	T1/E1/J1 cables	Four RJ-48
	H.100	H.100 Connector
Regulatory Conformance	Safety	US: UL 1950 Conformance
		Canada: CSA CS03 C22.2 No950-M89 or M93
		Europe: EN60950 2nd Edition + A1/A2/A3/4 ETS300-046 Parts 1 & 3
		Australia: TS001 AS/NSZ 3260 + A1/A2/3/4 including TNV
		Belgium: As Europe + EN41003
		Japan: UL 1950 EN60950 2nd Edition +A1/A2/A3
	EMC	US: FCC Part 15 Class A
		Canada: FCC Part 15 Class A
		Europe: EN 55022, EN 50082-1 (1996)
		Australia: EN 55022, EN 50082-1 (1996)
		Belgium: EN 55022, EN 50082-1 (1996)
		Japan: VCCI-A
	Telecom	US: FCC Part 68, ANSI T1.403
		Canada: RFCC Part 68
		Europe: CTR 12/13 (G.703/704 tests), ETS 300-246/247/248/418/419/420
		Australia: TS016

Ordering Information

Call for pricing and availability. Refer to the order codes below.

Description:

ARTIC 4-Port T1/E1/J1 DSP PMC
(front and rear I/O)
ORDER CODE: IOP-PMC-05000-A

ARTIC 4-Port T1/E1/J1 DSP PMC
(rear I/O only)
ORDER CODE: IOP-PMC-01000

Rear Panel Transition Modules (RTM)

ARTIC 8-Port T1/E1/J1 2 LAN Rear I/O RTM
ORDER CODE: IOP-RTM-00100

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Contact Information

World Headquarters