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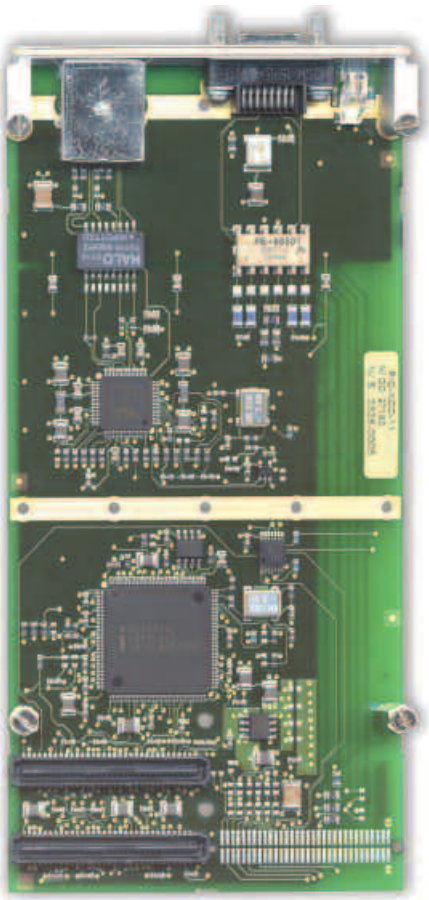
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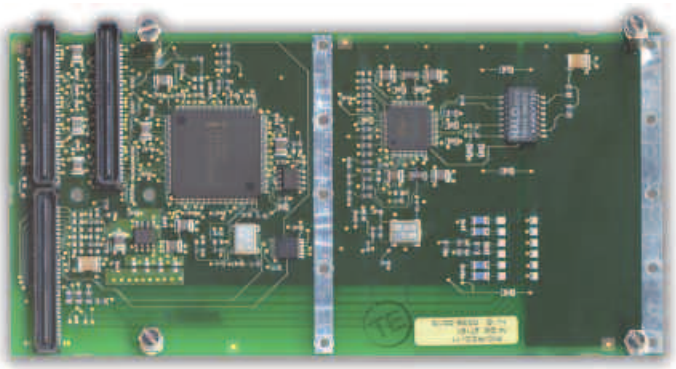
THALES



10/100 Ethernet PCI Mezzanine Card (PMC)



- 10/100BASE-T interface on low profile RJ-45 jack
- Ethernet 10BASE-5 (AUI) on Sub-D connector
- Full duplex Ethernet 10/100BASE-T capability
- Supports auto-detection between AUI, 10BASE-T and 100BASE-T
- Supports IEEE 802.3 and ANSI 8802-3 Ethernet standards
- Rear backplane Ethernet I/O as manufacturing option
- Single PMC format (149 mm x 74 mm)
- Fully compliant with Revision 2.1 of the PCI Local Bus Specification



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10/100 Ethernet PCI Mezzanine Card

Technical Data

PCI Ethernet Controller:

> Intel/DEC 21143
> Network Operation PCI clock from 20 MHz to 33 MHz
> PCI bus 32 bits/33 MHz, revision 2.1
> PCI bus 3.3V signaling, 5V tolerant
> Network interface used: AUI or (exclusive or at any time) MII (10/100BASE-T)

Ethernet Transceiver: Level One LXT970

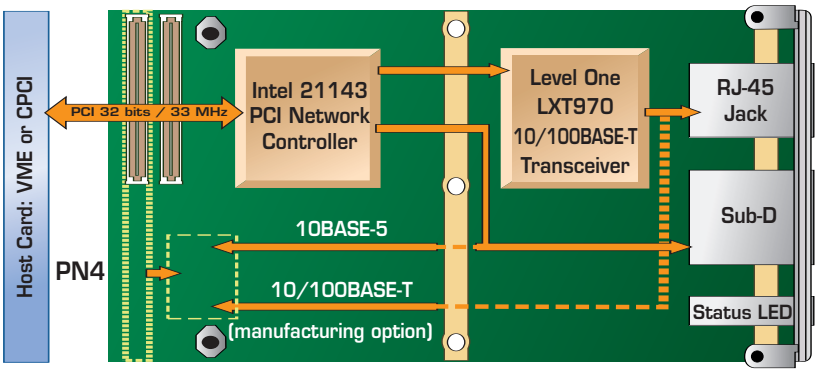
The LXT970 Fast Ethernet transceiver supports IEEE 802.3-compliant Ethernet applications at both 10 and 100 Mb/s operation. It supports both auto-negotiation via Fast Link Pulse exchange and parallel detection for legacy 10BASE-T and 100BASE-TX systems.

Front Panel I/O:

> 10/100BASE-T: an on-board low profile RJ-45 jack provides direct attachment to unshielded twisted pair wiring. TIA/EIA-568-A Category 5 UTP is required for IEEE 802.3 100BASE-TX operation but Category 3,4 or 5 UTP is acceptable for 10BASE-T operation.
> 10BASE-5 (AUI): a Sub-D 15-way connector provides the 10BASE-5 on the front panel. A D-type 15-way AUI standard interface is provided by the use of an additional cable.

Rear PN4 I/O:

If the host board supports PMI I/O-to-backplane connection, the Ethernet 10BASE-5 or the Ethernet 10/100BASE-T signals can be connected to the PMC I/O connector PN4. These options exclude any I/O on the front panel.



General Architecture of 10/100 Ethernet PMC

Overall Dimensions		
Single PMC	149 x 74 mm - One slot	
PCI bus Interface		
	32-bit/33 MHz	Revision 2.1 compliant
Power Requirements		
	+5V, -5%, +5% +12V, +2,5%, +5% (for 10BASE-5 only)	
Environmental Specifications		
	Operating:	**Storage:**
Temperature Range	0° to 55°C Ambient	-55° to 85°C
Recommended Cooling	A linear airflow of not less than 1.2 m/s across the board	
Relative Humidity	Up to 90% without condensation (Up to 95% with optional coating)	
Thermal Shock	±5°C per minute	± 10°C per minute
Altitude	-300 to +3,000 m/ -1,000 to 10,000 ft	-300 to 16,000 m / -1,000 to 50,000 ft
Vibration	20 to 500 Hz at 2g acceleration	20 to 500 Hz at 2g acceleration
Shock	10g, 16 ms	20g, 11 ms
when coupled with PowerEngine VMPC and CVME 6xx series *For extended temperature range and coating option, please contact Thales Computers*		
Power Consumption		
Board Status Transmit and Receive (full speed) 1.5W typical		

Hardware	**Ordering Code**
Ethernet 10BASE-5 and 10/100BASE-T on front panel	CPMC-ETH-XC
Ethernet 10BASE-5 on PN4 PMC I/O connector	CPMC-ETH-XR
Ethernet 10/100BASE-T on PN4 PMC I/O connector	CPMC-ETH-CRC
Ethernet 10/100BASE-T Rugged Air Cooled	PMCETH-RA
Ethernet 10/100BASE-T Rugged Conduction Cooled	PMCETH-RC
Related Products	**Ordering Code**
Sub-D 15 to AUI cable	CABETH1

Software driver available for:
AIX
LynxOS
VxWorks for Tornado 2 with SENS

With AFAQ ISO 9001 2000 Version Certification, Thales Computers guarantees Total Customer Satisfaction.

Reference SD_FP089-1e - October 2005 - The specifications are subject to change without prior notice - Copyright Thales Computers 2005
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