



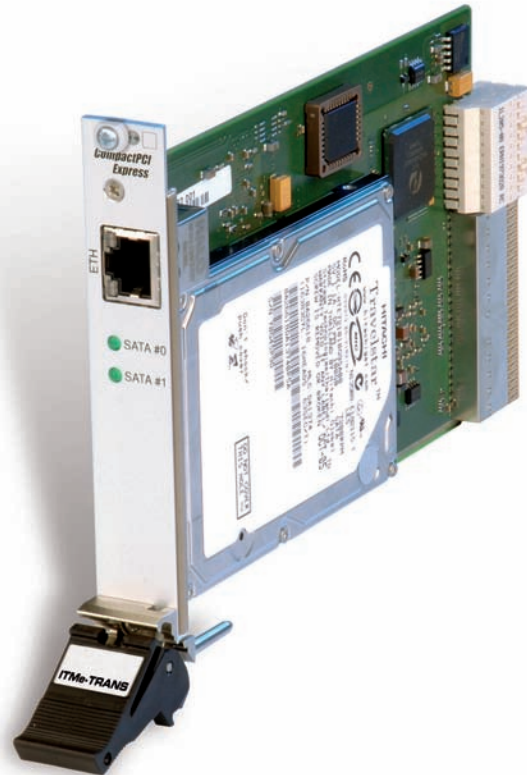
APPLICATIONS

The primary role of the translation module is to act as a bridge between the serial CompactPCI Express world and the 32-bit CompactPCI world making this product suitable for a range of high-performance applications in:

- ▶ Rugged Embedded Systems
- ▶ Avionics/Military
- ▶ Instrumentation
- ▶ Robotics
- ▶ Industrial Control and Automation
- ▶ Maintenance Free Systems
- ▶ Traffic and Transportation
- ▶ Measurement & Control
- ▶ Homeland Security

ITMe-TRANS

3U CompactPCI Express Translation Board with Serial ATA and Gbit Ethernet



ITMe-TRANS

FEATURES

- ▶ Serial cPCIe to 32-bit parallel cPCI bridge
- ▶ Dedicated Gigabit Ethernet controller
- ▶ Serial ATA interface for 2.5" devices
- ▶ RAID enabled through rear I/O
- ▶ EMI filtered
- ▶ Low power consumption
- ▶ LED hard-disk status indication
- ▶ Rugged format for harsh environments

BENEFITS

- ▶ Utilize existing cPCI boards in Express systems
- ▶ Preserve investment in existing cPCI boards
- ▶ Ready for additional rear I/O RAID solution
- ▶ Additional off-CPU mass-storage
- ▶ Long-term product availability
- ▶ Open standard architecture
- ▶ Fully software transparent





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UTILITY

OVERVIEW

By bridging the standard and Express CompactPCI worlds, both the 'hybrid' and 'legacy' CompactPCI backplane slots can be addressed at the expense of just one CompactPCI Express lane.

Additional functionality is provided in the form of a dedicated, and CPU independent, Gigabit Ethernet interface. A serial ATA interface for 2.5" devices provides additional backup. LEDs on the front panel indicate the hard disk activity of both an installed serial ATA hard-disk on the base board and that of a connected device on a dedicated rear I/O module.

SPECIFICATION SUMMARY

- ▶ cPCIe to cPCI bridge
- ▶ SATA II host controller
- ▶ Intel 82573 Gigabit Ethernet controller
- ▶ 2x SATA status LEDs
- ▶ High MTBF
- ▶ Rugged 3U cPCIe format

SPECIFICATIONS

INTERFACES

- ▶ ADF for CompactPCI Express [XJ3]
- ▶ CompactPCI [J0]
- ▶ Embedded SATA interface for 2.5" devices
- ▶ Gigabit Ethernet [RJ45]

SOFTWARE SUPPORT

- ▶ Microsoft Windows® XP (Embedded),
- ▶ Microsoft Windows® 2000
- ▶ Linux (SUSE, Red Hat)
- ▶ Real-time OS (VxWorks, QNX)

CONTROLLER

- PCI Express to PCI bus bridge
- PCI local bus 33MHz/32 bit
- X1 cPCIe lane to on-board PCIe Switch
- SATA II host controller (3 GB/s):
 - ▶ 2x independent SATA channels
 - ▶ 1x 2.5" serial ATA HD interface
 - ▶ 1x serial ATA channel to rear I/O
- Intel 82573 Gigabit Ethernet

GENERAL

- ▶ MTBF: > 250,000 hours
- ▶ Status LEDs: HD Activity (green)
- ▶ Mass: ~120g
- ▶ Dimensions: 3U (100x160 mm) x 4HP

CLIMATIC CONDITIONS

- +5°C to +55°C (standard)
- 20°C to +60°C (optional)
- 40°C to +75°C (storage)
- Humidity 5% to 95% @ 40°C (non-condensing)

REAR I/O

- Serial ATA II (3.0 Gb/s) channel for RAID solutions

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ITMe-TRANS-0	3U, translation board with independent Gb Ethernet and provision for 2.5" SATA mass storage device
	Notes: Boards fitted with HD, or optical disk drive etc. may have a max. operational temp. of 50°C. If automotive-grade hard disks are used, the board may operate in the full temp. spectrum. This product is fully compatible with an EMTrust backplane, and may not be suitable for 3 rd party backplanes. Contact an EMTrust sales representative for advice on mass-storage options.



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