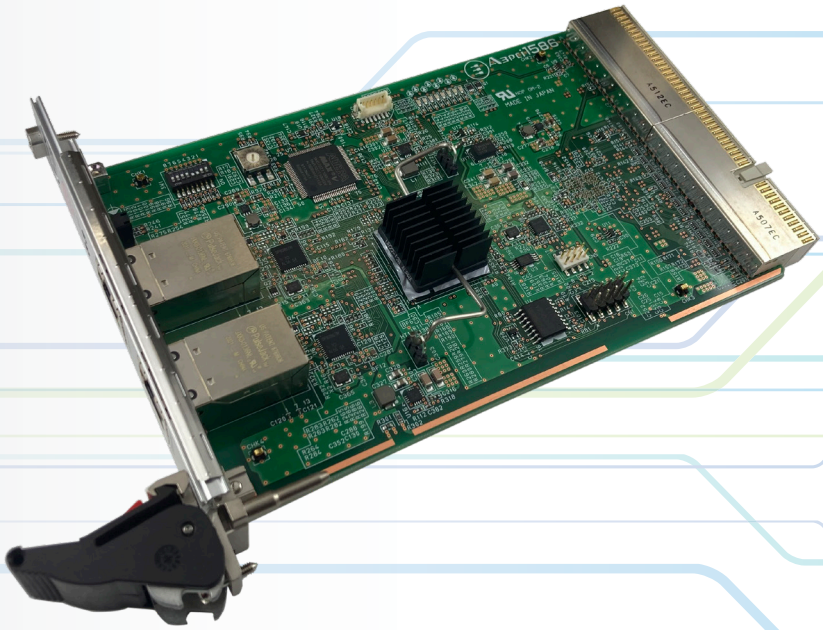
A3pci1586



FEATURES

- 1G ExpEther Slave Adapter
- ExpEther Bridge (Slave)
- 1000BASE-T
- 2-port redundant configuration
- Cable length up to 100m
- 3U CompactPCI Board
- Operating temp range: -40 to 85°C (Extended temp product)
- OS independent

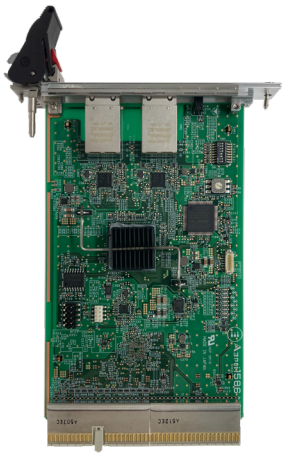
A3pci1586 is a 3U CompactPCI form factor 1G ExpEther Slave Adapter based on ExpEther, a technology that propagates PCI Express signals on Ethernet.

The ExpEther Bridge behaves as a software-transparent PCI Express switch, so it is possible to construct a system that is as flexible as Ethernet without software changes or with minimal changes.

This board can be mounted on the system slots inside CompactPCI racks, and it functions as an ExpEther device-side bridge. By connecting to an ExpEther Host Bus Adapter on the host side, it is possible to extend the PCI Express bus (up to 100m) between different chassis.

The Ethernet interface supports 1000BASE-T and can ensure redundancy with a 2-port configuration.

A3pci1586
Specifications



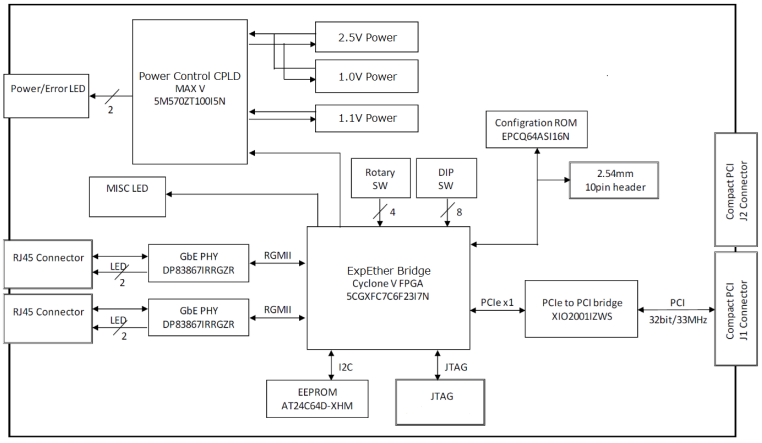
Specifications

ExpEther	Ethernet Standard	1000BASE-T
	Number of ports	2 (redundancy possible)
	Transmission speed	1Gbps (single-bus connection) , 2Gbps (multi-bus connection)
	Applicable cables	Category 5e(CAT5e)or higher (straight, max 100m)
ExpEther Bridge	FPGA	5CGXFC7C6F23I7N by Intel
Front I/O	ExpEther	2 ports (RJ-45) *This port is dedicated for ExpEther and cannot be used as an Ethernet communication port
	LED	LED for ExpEther LINK/ACT indication (green/yellow, built-in RJ-45 connector) LED for ExpEther communication error indication (red) Power LED (green)
CompactPCI	Standard	PCI Local Bus Specification Revision 2.2 PICMG 2.0 R3.0 CompactPCI Specification *This is for system slots only and cannot be used in peripheral slots
	Signaling level	3.3V / 5V
	Bus aviator	Peripheral 6 slots 32bit
	Data width	32 bit
	Clock frequency	33.33 MHz
Power	Supply voltage	DC5V : +5% / -3% (powered from CompactPCI rack) DC3.3V : +5% / -3% (powered from CompactPCI rack)
	Consumption	DC5V : 0.9A (Max) DC3.3V : 0.4A (Max)
Mechanical	Dimensions	100㎜ x 160㎜ (3U size CompactPCI bus 1 slot wide) *6U size panel can be mounted as an option
	Weight	175g
Environment	Operating Temp	-40 to 85°C
	Storage Temp	35 to 85% RH (non-condensing)
Certifications	RoHS	2011/65/EU, (EU)2015/863

Software

OS	OS independent (operation confirmed on Ubuntu Linux and Windows 10)

Block Diagrams



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