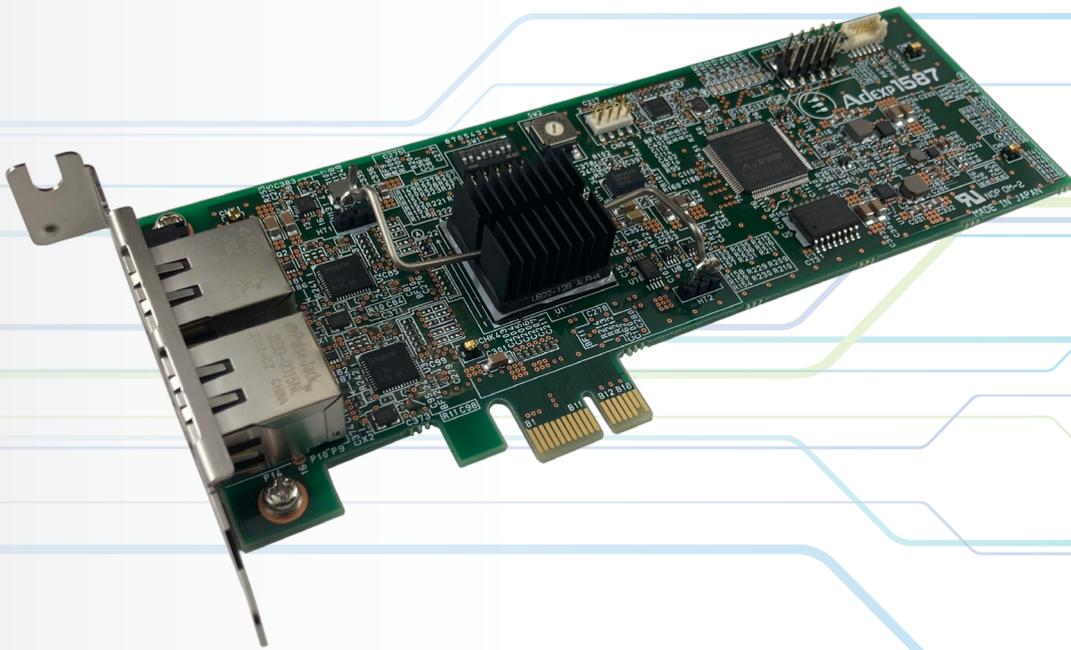


AdEXP1587



FEATURES

- **1G ExpEther Host Bus Adapter**
- **ExpEther Bridge (Master)**
- **1000BASE-T**
- **2-port redundant configuration**
- **Cable length up to 100m**
- **PCI Express Add-in card**
- **Low profile design enables mounting on slim PCs**
- **Operating temp range: -40 to 85°C (Extended temp product)**
- **OS independent**

AdEXP1587 is a Low-profile PCI Express Add-in card type 1G ExpEther Host Bus 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 is mounted on PCI Express slots such as FAPC, and functions as an ExpEther host-side bridge. By connecting to an ExpEther Slave Adapter on the device side, it is possible to extend the PCI Express bus (up to 100m) between different bodies.

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

AdEXP1587

Specifications



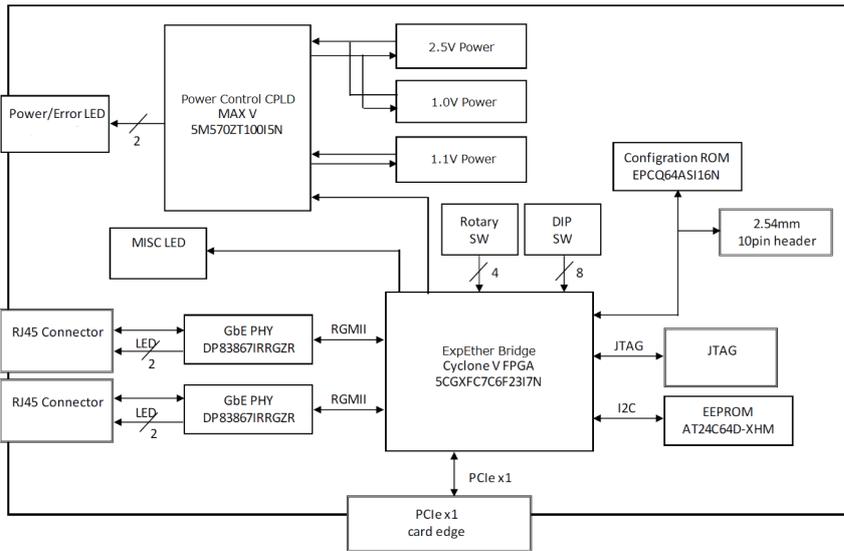
Specifications

ExpEther	Ethernet Standard Number of ports Transmission speed Applicable cables	1000BASE-T 2 (redundancy possible) 1Gbps (single-bus connection), 2Gbps (multi-bus connection) Category 5e(CAT5e) or higher (straight, max 100m)
ExpEther Bridge	FPGA	5CGXFC7C6F23I7N by Intel
Front I/O	ExpEther LED	2 ports (RJ-45) *This port is dedicated for ExpEther and cannot be used as an Ethernet communication port LED for ExpEther LINK/ACT indication (green/yellow, built-in RJ-45 connector) LED for ExpEther communication error indication (red) Power LED (green)
PCI Express	Standard Link width / speed	PCI Express Base Specification Revision 1.1 PCI Express Card Electromechanical Specification Revision 1.1 x1 / 2.5Gbps
Power	Supply voltage Current Consumption	DC12V : ±8% (powered from PCI Express slot) DC3.3V : ±9% (powered from PCI Express slot) DC12V : 0.5A (Max) DC3.3V : 0.3A (Max)
Mechanical	Dimensions Weight	68.9mm x 167.5mm (both low profile / standard height) 75 g
Environment	Operating Temp Storage Temp	-40 to 85°C 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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