

Adexp1566

PCI Express - Serial RapidIO Bridge Board

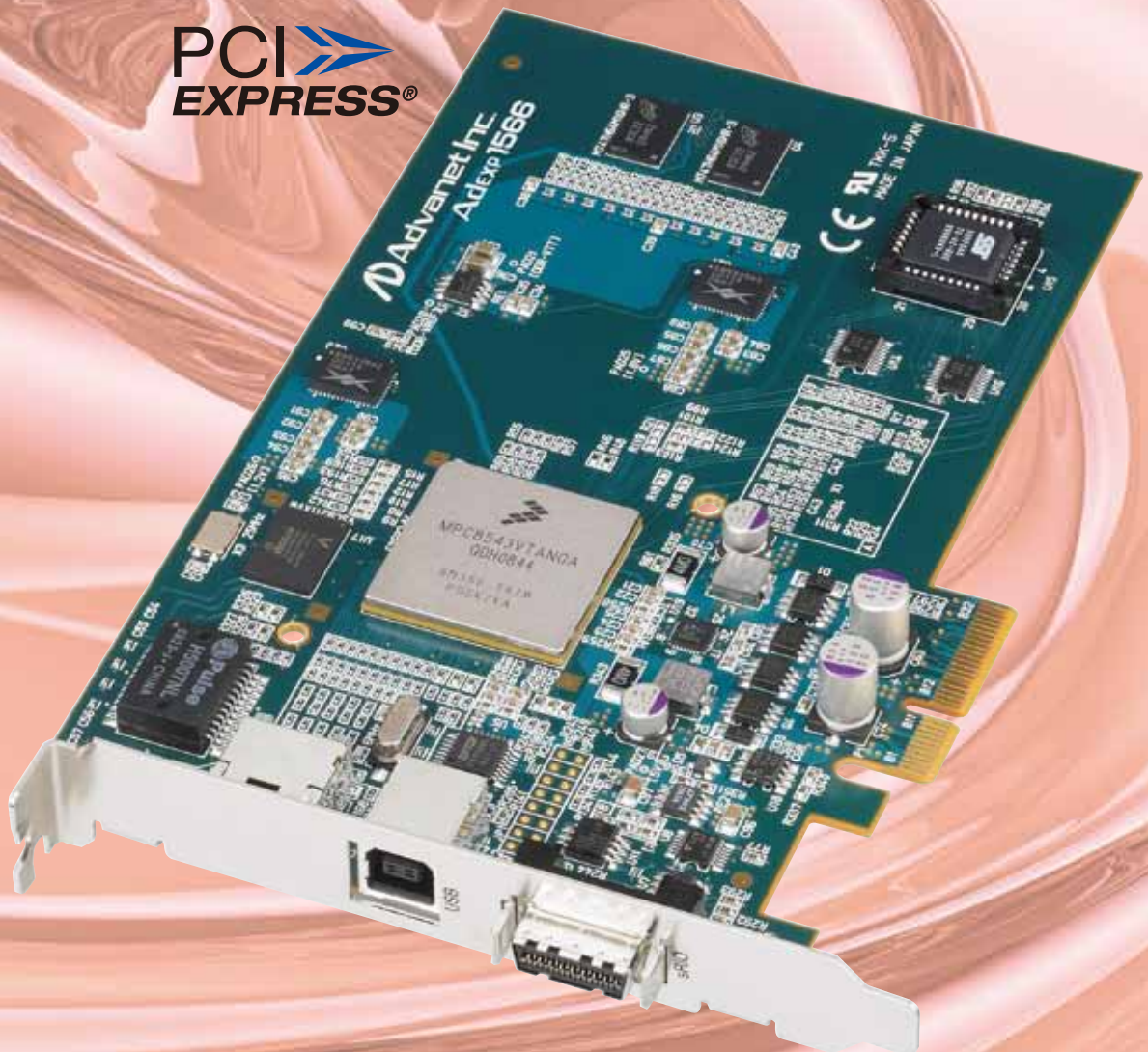
Bridge device Freescale MPC8543

InfiniBand connector for Serial RapidIO

Metal cable and optical cable can be used for InfiniBand as transmission cable

Cable can be extended up to 7m with metal cable and up to 100m with optical cable

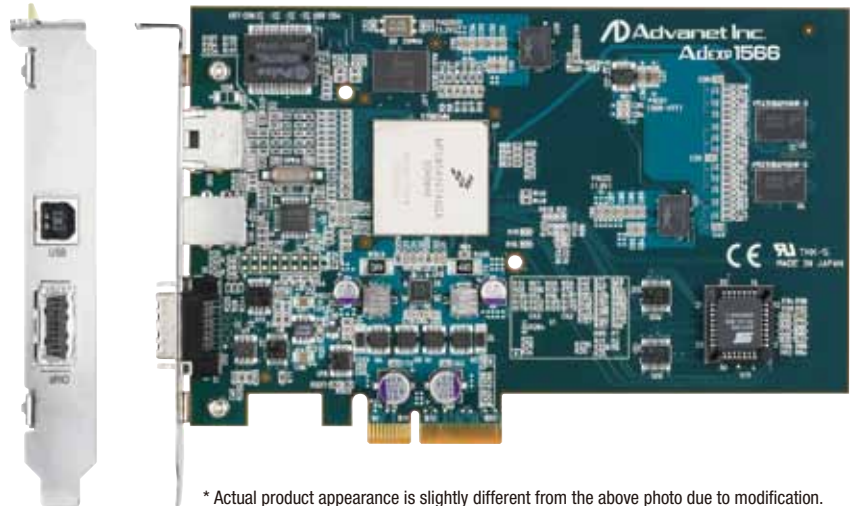
 PCI
EXPRESS®



PCI Express - Serial RapidIO Bridge Board

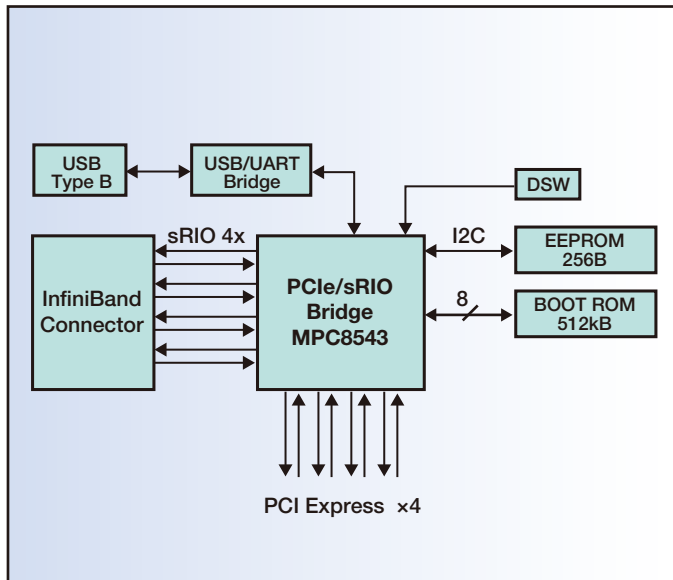
Overview

This board has a bridge function from PCI Express to Serial RapidIO. Freescale MPC8543 is adopted as the bridge and InfiniBand connectors are used for the Serial RapidIO connectors. Both metal and optical cables for InfiniBand can be used as a transmission cable. Cable can be extended up to 7m with metal cable and up to 100m with optical cable.



* Actual product appearance is slightly different from the above photo due to modification.

Block Diagram



Specifications

Bridge	Device	Freescale MPC8543
	Operating clock	800MHz
Memory	EEPROM	256 byte, connected to I2C I/F of MPC8543
	Boot ROM	512kB, FLASH memory
Front panel I/O	Serial RapidIO	Metal connector (4x) and optical/metal cables can be used for InfiniBand
	USB	Connect to UART with MPC8543 by using USB/UART bridge USB type-B connector x1
PCI Express	Standards	PCI Express Base Specification Revision 1.0a PCI Express Card Electromechanical Specification Revision 1.1
	Lane Capable slot	x4 (2.5Gbps)
Serial RapidIO	Standards	RapidIO Interconnect Specification, Rev.1.2
	Lane	4x (2.5Gbps)
Power supply		12V±8% (supplied from PCI Express slot)
		3.3V±9% (supplied from PCI Express slot)
Consumption current		12V 0.8A (max) 3.3V 1.5A (max)
Form factor		Half size (111.15 x 167.65mm)

Please consult us regarding your specific custom requirements

Note: The following specifications and product appearance are subject to change for enhancement without notice.



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