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ADLINK LEADING EDGE COMPUTING

PXIe-3988

3U 9th Generation Intel® Xeon® E Processor based PXI Express Gen3 Controller with 16GB/s System Bandwidth Capability

Features

- 9th Gen Intel® Xeon® E processor (codename "Coffee Lake")
- Up to 64GB GB dual channel DDR4 at 2133/2400 MHz (non-ECC)
- Maximum system throughput up to 16 GB/s by PCI Express 3.0 bus
- Supports four links x4 or two links x8 PXI Express link indent to PXI Express chassis
- 2x GbE, 4x USB 2.0, 2x USB 3.0, GPIB (IEEE488) controller
- 2x DisplayPort connectors, 1x RS-232/422/485 DB-9 connector
- Trigger I/O for advanced PXI trigger functions

Introduction

The ADLINK PXIe-3988 PXI Express embedded controller, based on the 9th gen Intel® Xeon® E processor, is specifically designed for hybrid PXI Express-based testing systems, delivering maximum computing power for a wide variety of testing and measurement applications. By utilizing the Intel® Xeon® E-2276ME processor (6 cores, 12 threads) with up to 64 GB of 2666 MHz DDR4 memory, the PXIe-3988 easily performs execution of numerous independent tasks simultaneously in a multi-tasking environment. With an auto configure PCIe switch, the PXIe-3988 can support four links x4 or two links x8 PXI Express link capability, with maximum system throughput up to 16 GB/s by PCI Express 3.0 bus.

The ADLINK PXIe-3988 provides ample interface flexibility, including two DisplayPort connectors, allowing connection to two monitors, dual USB 3.0 connections for high speed peripheral devices, dual Gigabit Ethernet ports, with one for LAN connection and the other for controlling LXI instruments, four USB 2.0 ports for peripheral devices and USB instrument control, and a Micro-D GPIB connector for GPIB instrument connection, for hybrid PXI-based testing systems control.

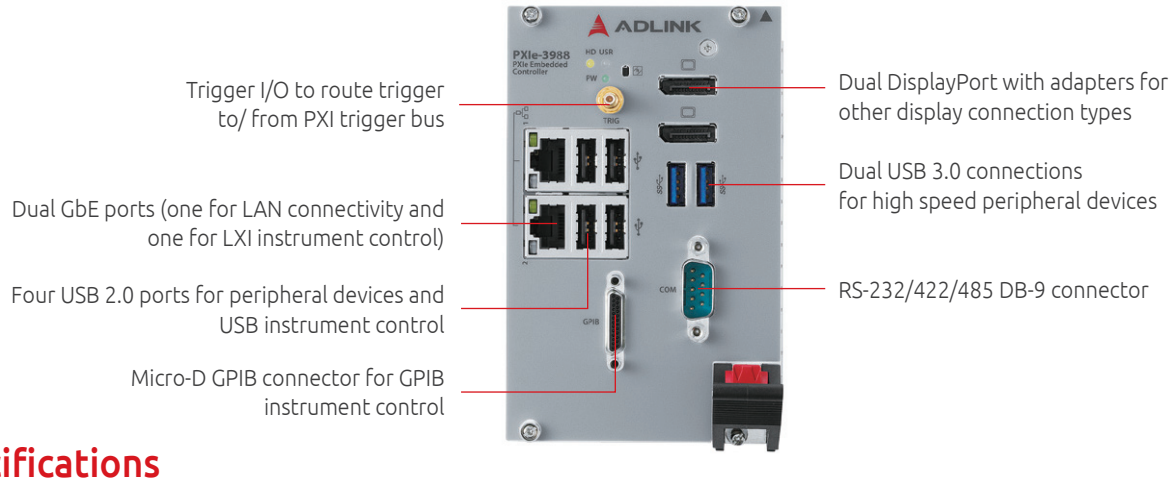
Ordering Information

- **PXIe-3988/M16G/512GB SSD**
  3U PXI Intel® Xeon® E-2276ME 2.8GHz system controller with 16GB memory and 512GB SSD
- **PXIe-3988/M16G/512GB SSD/Win10**
  3U PXI Intel® Xeon® E-2276ME 2.8GHz system controller with 16GB memory, 512GB SSD, and Windows 10 LTSC

Accessory

- **ACL-IEEE488-MD1-A**
  25-pin Micro-D to GPIB cable, 1m
- **DisplayPort to VGA cable**
  Displayport (plug) to D-SUB 15-pin (F) cable, 150mm
- **DisplayPort to DVI cable**
  Displayport (plug) to DVI (F) cable, 150mm
- **DisplayPort to HDMI cable**
  Displayport (plug) to HDMI (F) cable, 150mm

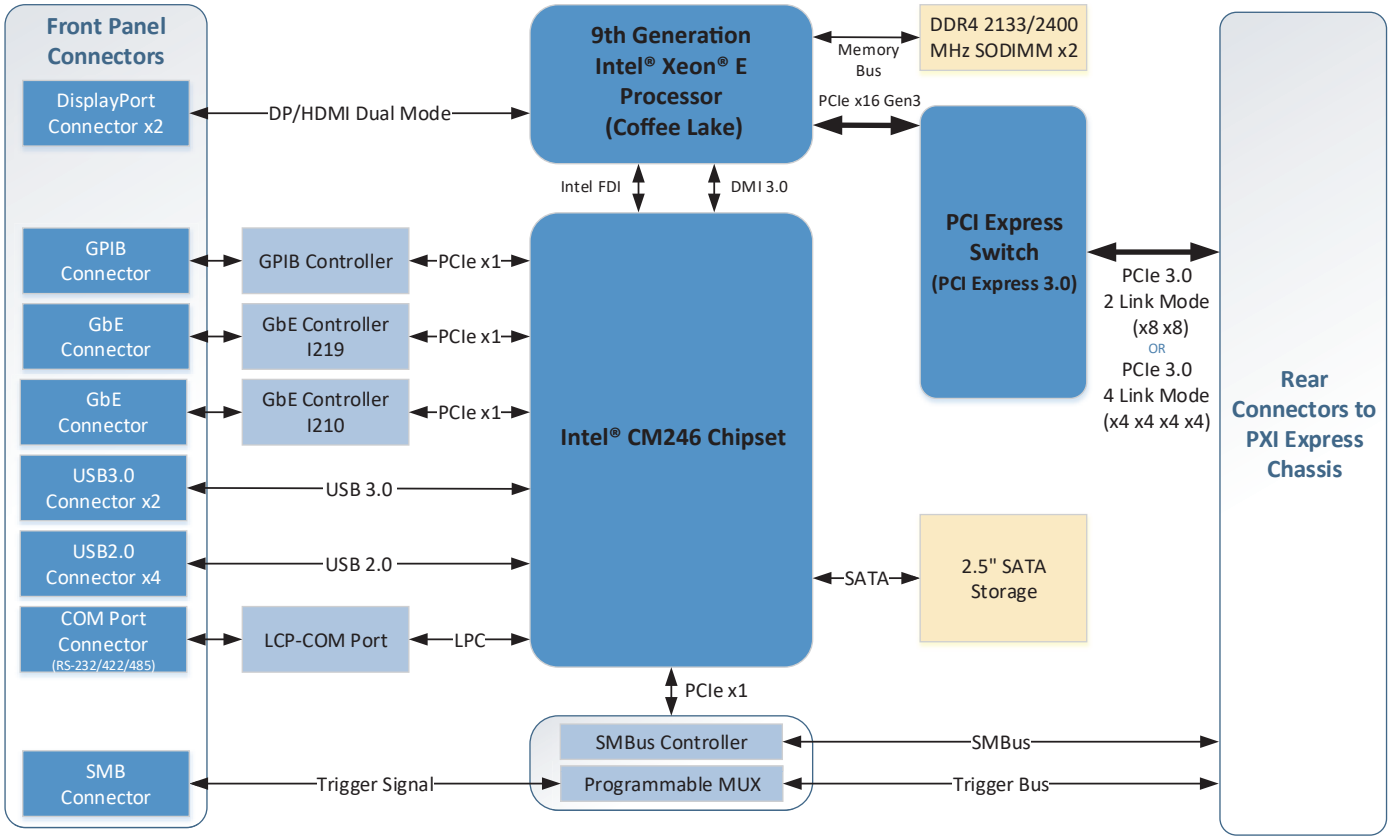
Product Illustration



Specifications

Model Name	PXIe-3988
Core Features	
CPU	Intel® Xeon® E-2276ME 2.8GHz (Turbo 4.5GHz)
DMI	DMI 3.0 8GT/s
Chipset	Intel® CM246
Memory	Up to 64 GB dual channel DDR4 at 2133/2400 MHz (non-ECC memory)
Display	
DisplayPort	3840 x 2160 @60Hz DisplayPort adapters to other standards are available, w/ max. resolution dependent on adapter
PXI Express Chassis I/O	
Bus	PCI Express 3.0 (back wards compatible with 2.x and 1.x)
System Bandwidth	Up to 16GB/s
PXIe Link Configuration	2 Link Mode: x8 x8 4 Link Mode: x4 x4 x4 x4
I/O Connectivity	
Storage	One SATA 6.0 Gb/s port with a 2.5" SATA drive bracket
Ethernet	Intel® Ethernet controller I219-LM, I210
USB	2 x USB 3.0 and 4 x USB 2.0, front-mounted
GPIB	Onboard IEEE488 GPIB controller Micro-D 25-pin connector, front-mounted (ACL-IEEE488-MD1-A cable required)
Trigger I/O	SMB connector, front-mounted, to route an external trigger signal to/from PXI trigger bus
Mechanical and Environmental	
Dimensions	3U/4-slot PXI standard
Slot Requirements	1 system slot plus 3 controller expansion slots
Weight	1 kg (2.2 lbs)
Operating Temp.	0°C to 55°C (32˚F to 131˚F) w/ SSD 0°C to 50°C (32˚F to 122˚F) w/ HDD
Storage Temp.	-20°C to 70°C (-4˚F to 158˚F)
Relative Humidity	5% to 95%, non-condensing
Shock	30 G, half-sine, 11 ms pulse duration
Vibration	Operating: 5 to 500 Hz, 0.21 GRMS, 3 axes Non-operating: 5 to 500 Hz, 2.46 GRMS, 3 axes
Emissions Compliance	EEN 61326-1, FCC Class B
CE Compliance	Immunity: EN 61326-1
Operating System	Windows 10 64-bit

PXIe-3988



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