PXI-3982

3U 6th Generation Intel® Core™ i7 Processor-based PXI Controller

Features

- PXI-1 hardware specification Rev. 2.3 compliant
- 6th Gen Intel® Core™ i7 Processor
- 1x DisplayPort
- Dual channel DDR4 2133 MHz SODIMM up to 32 GB
- Maximum system throughput 132 MB/s
- Integrated SATA storage (SSD 240GB default)
- Integrated I/O
  - 4x USB 3.0 ports and 2x USB 2.0 ports
  - 2x Gigabit Ethernet ports
  - Built-in GPIB (IEEE488) controller
  - Trigger I/O for advanced PXI trigger functions



Introduction

The ADLINK PXI-3982 PXI embedded controller, based on the 6th generation Intel® Core™ i7 processor, is specifically designed for hybrid PXI based testing systems, delivering a rugged yet stable platform for a wide variety of testing and measurement applications. By utilizing the Intel® Core™ i7-6820EQ processor (4 cores, 8 threads) with up to 32 GB of 2133 MHz DDR4 memory, the PXI-3982 easily performs execution of numerous independent tasks simultaneously.

The ADLINK PXI-3982 provides ample interface flexibility, including four USB 3.0 connections for high speed peripheral devices, dual Gigabit Ethernet ports (one for LAN connection, the other for controlling LXI instruments) two 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.

Operating System

- Windows 10

Ordering Information

- **PXI-3982/M8G/SSD**
  3U PXI Intel® Core™ i7-6820EQ 2.8GHz system controller with 8 GB memory & 240 GB SSD
- **PXI-3982/M8G/SSD/Win 10**
  3U PXI Intel® Core™ i7-6820EQ 2.8GHz system controller with 8 GB memory & 240 GB SSD & Win10 IOT LTSC

Cable Accessories

- **ACL-IEEE488-MD1-A**
  25-pin Micro-D to GPIB Cable, 1 Meter Length
- **DisplayPort to VGA cable**
  Displayport (Plug) to D-DUB 15PIN (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

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Product Illustration

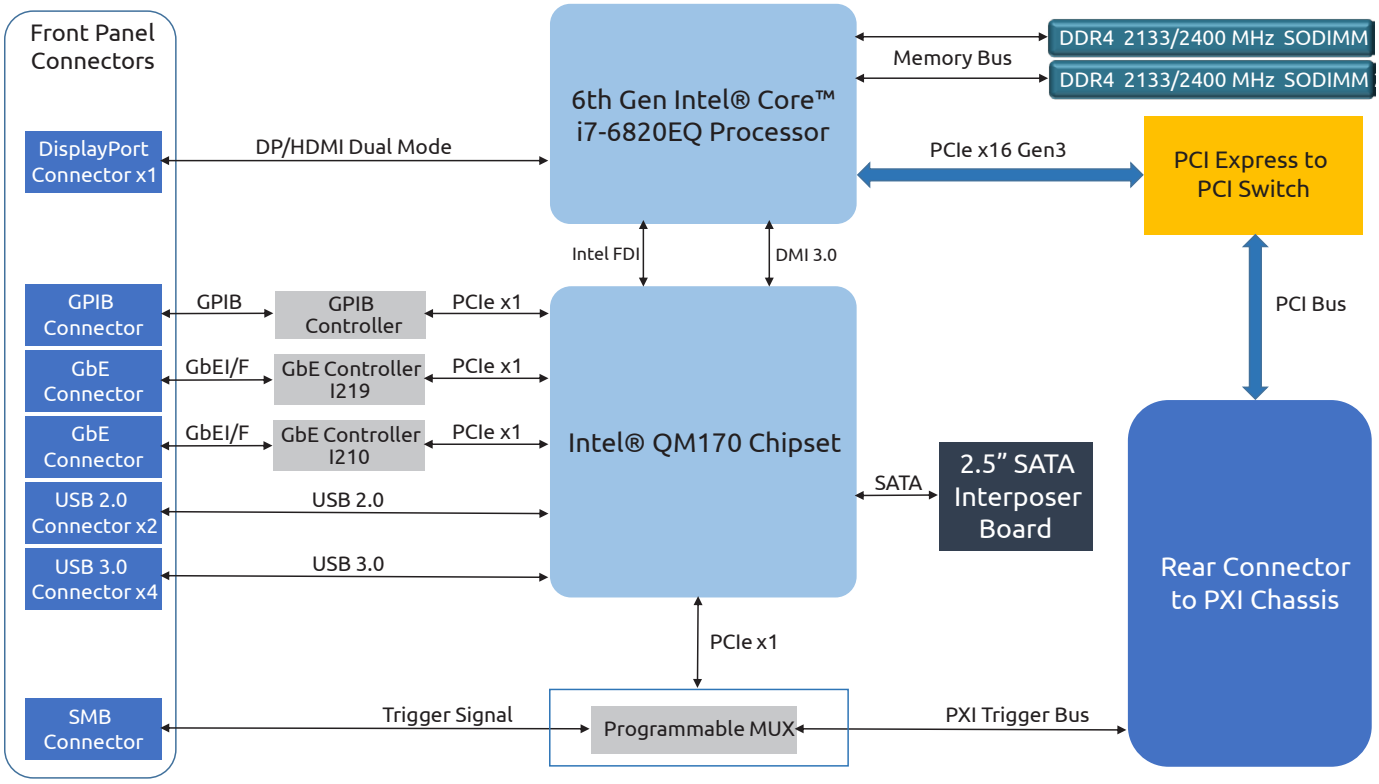


PXI-3982 Front Panel

Specifications

Model Name	PXI-3982
Core Features	
CPU	Core™ i7-6820EQ 2.8GHz(Turbo 3.5GHz)
DMI	5 GT/s
Chipset	Intel® QM170 Chipset
Memory	Up to 32 GB SO-DIMM memory Supports dual-channel DDR4 SDRAM, 2133 MHz
Display	
DisplayPort	3840 x 2160 @60Hz DisplayPort adapters to other standards are available, max. resolution dependent on adapter
I/O Connectivity	
Ethernet	One Intel® I210 Gigabit Ethernet and one Intel® I219LM Gigabit Ethernet Two RJ-45 connectors with speed/link/active LED on faceplate
USB	4 x USB 3.0 and 2 x USB 2.0 on faceplate
GPIB	On-board IEEE488 GPIB controller Micro-D 25-pin connector on faceplate (ACL-IEEE488-MD1-A cable required)
Trigger I/O	SMB connector on faceplate to route an external trigger signal to/from PXI trigger bus
Storage	
SSD	240 GB (default)
Mechanical and Environmental	
Dimensions (W x H x D)	60.5 mm x 128.7 mm x 213.2 mm (2.35” x 5.01” x 8.31”)
Slot Requirements	1 system slot plus 2 controller expansion slots
Weight	1.1 kg (2.3 lbs)
Operating Temp.	0°C to 50°C (32˚F to 122˚F) w/ HDD 0°C to 55°C (32˚F to 131˚F) w/ SSD
Storage Temp.	-20 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	EN 61326-1, FCC Class A
CE Compliance	Immunity: EN 61326-1

Functional Block Diagram



LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

All products and company names listed are trademarks or trade names of their respective companies.
Updated May. 03, 2021. ©2021 ADLINK Technology, Inc. All Rights Reserved.
All specifications are subject to change without further notice.