# PXI-3980

*3U Intel® Core™ i7-2715QE 2.1 GHz Quad-Core Processor-based PXI Controller*

## Features



- PXI-1 Hardware Specification Rev. 2.2 compliant
- Superior computing power
  - Intel® Core™ i7-2715QE 2.1 GHz processor, 3.0 GHz maximum in single-core, Turbo Boost mode
- Supports dual display with VGA + DVI
- Dual channel DDR3 SODIMM
  - Up to 16 GB 1333 MHz
- Maximum system throughput 132 MB/s
- Integrated SATA storage
  - 500 GB (or greater) HDD or 240 GB (or greater) SSD
- Integrated I/O
  - Dual USB 3.0 ports and four USB 2.0 ports
  - Dual Gigabit Ethernet ports
  - Built-in GPIB (IEEE488) controller
  - Trigger I/O for advanced PXI™ trigger functions
- Programmable watchdog timer

## Introduction

The ADLINK PXI-3980 PXI embedded controller, based on the second 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.

Combining state-of-the-art 2.1 GHz quad-core Intel® Core™ i7-2715QE processors (3.0 GHz maximum in single-core, Turbo Boost mode), and up to 16 GB of 1333 MHz DDR3 memory, the PXI-3980 utilizes four separate computing engines on a single processor, enabling execution of numerous independent tasks simultaneously.

The ADLINK PXI-3980 provides ample interface flexibility, including 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.

## Supported Operating System

- Windows 7 & 10

## Ordering Information

- **PXI-3980**
  3U PXI Intel® Core™ i7-2715QE 2.1 GHz system controller with 4 GB memory & 500 GB HDD
- **PXI-3980/M8G**
  3U PXI Intel® Core™ i7-2715QE 2.1 GHz system controller with 8 GB memory & 500 GB HDD
- **PXI-3980/SSD**
  3U PXI Intel® Core™ i7-2715QE 2.1 GHz system controller with 4 GB memory & 240 GB SSD
- **PXI-3980/M8G/SSD**
  3U PXI Intel® Core™ i7-2715QE 2.1 GHz system controller with 8 GB memory & 240 GB SSD

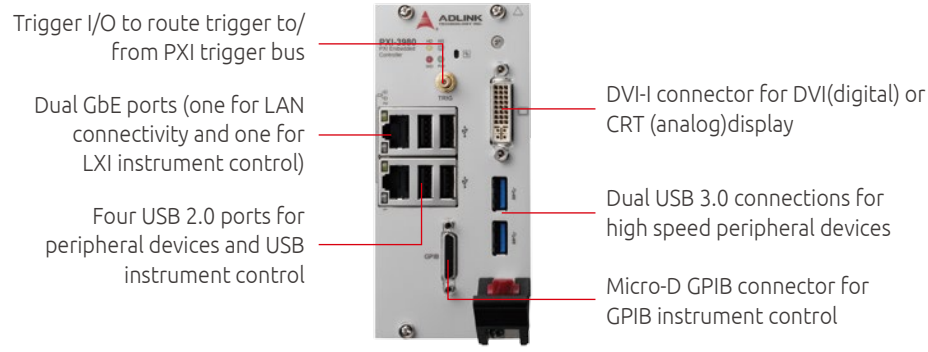
NOTE: 16 GB memory configuration available on request, please contact ADLINK Sales

## Cable Accessory

- **ACL-IEEE488-MD1-A**
  25-pin Micro-D to GPIB Cable, 1 Meter Length

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## Product Illustration




**PXI-3980 Front Panel**

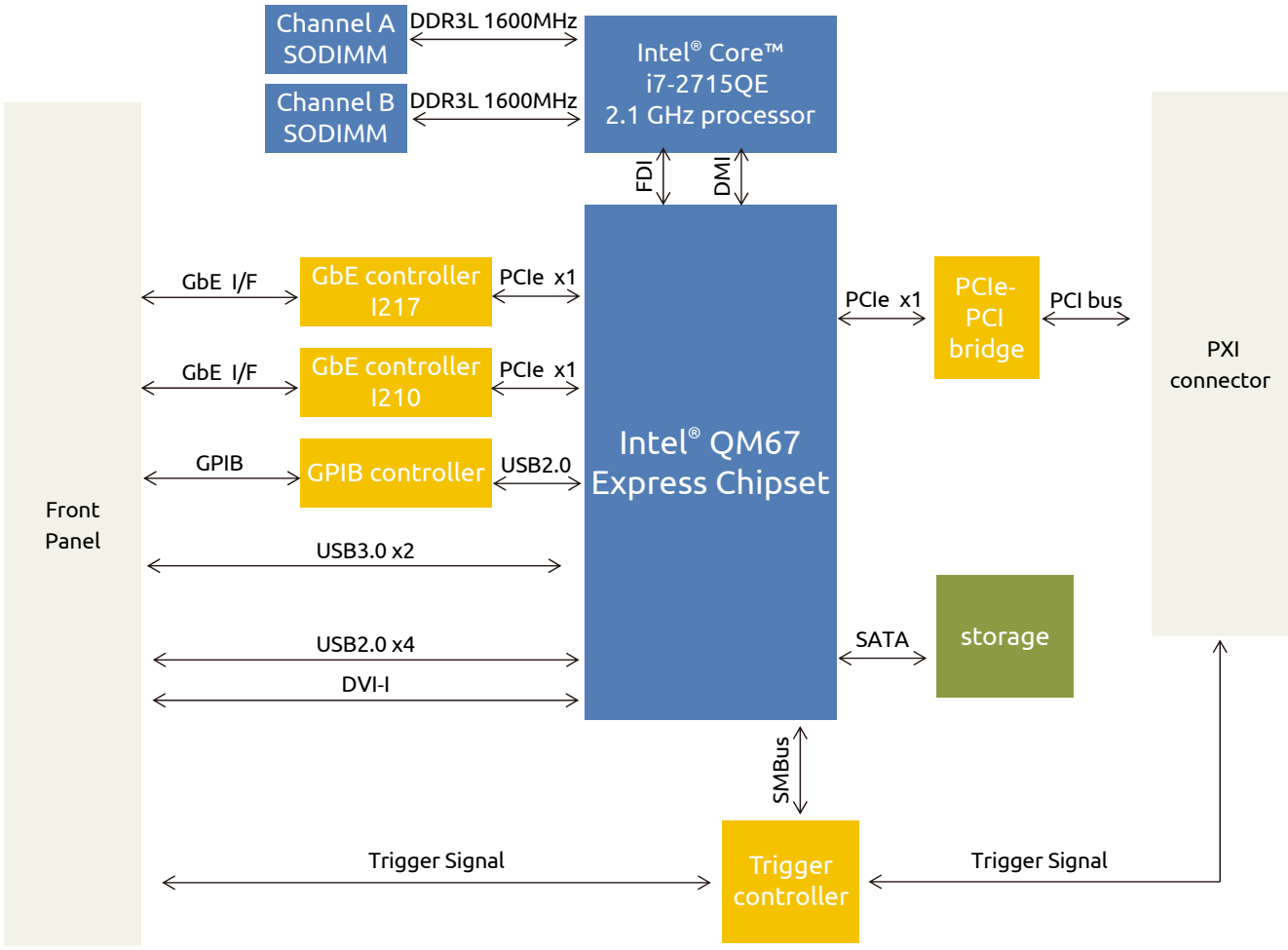
## Specifications

| Model Name | PXI-3980 |
|---|---|
| **Core Features** | |
| CPU | Intel® Core™ i7-2715QE 2.1 GHz |
| DMI | 5 GT/s |
| Chipset | Intel® QM67 Express chipset |
| Memory | Up to 16 GB SO-DIMM memory<br>Supports dual-channel DDR3 SDRAM, 1066/1333 MHz |
| **Display** | |
| DVI | DVI output provides up to 1920 x 1200 bpp at 60Hz resolution or up to 2048 x 1536 bpp at 75Hz |
| VGA | Analog VGA output provides up to 1920 x 1200 bpp at 60Hz resolution or up to 2048 x 1536 bpp at 75Hz |
| **I/O Connectivity** | |
| Ethernet | One Intel® 82579LM Gigabit Ethernet PHY and One Intel® I210 Gigabit Ethernet Controller<br>Two RJ-45 connectors with speed/link/active LED on the faceplate |
| USB | 2 x USB 3.0 and 4 x USB 2.0 on the faceplate |
| GPIB | On-board IEEE488 GPIB controller<br>Micro-D 25-pin connector on the faceplate (ACL-IEEE488-MD1-A cable required) |
| Trigger I/O | SMB connector on the faceplate to route an external trigger signal to/from PXI trigger bus |
| **Storage** | |
| HDD | 500 GB (or greater) SATA hard drive |
| SSD | 240 GB |
| **Mechanical and Environmental** | |
| Dimensions | 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 to 50°C (32˚F to 122˚F) (w/ HDD)<br>0 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 (w/HDD)<br>5 to 500 Hz, 0.3 Grms, 3 axes (w/SSD)<br>Non-operating: 5 to 500 Hz, 2.46 Grms, 3 axes (w/ both HDD & SSD) |
| Emissions Compliance | EN 61326-1, FCC Class A |
| CE Compliance | Immunity: EN 61326-1 |

Note1. Depends on model ordered

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## PXI-3980 Block Diagram




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