PXIe-3161a

3U PXIe Intel Xeon W-11865MRE system controller

PXIe-3161a

Introduction

The JYTEK PXIe-3161a PXI Express embedded controller, based on the 11th gen Intel® Xeon® 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® W-11865MRE processor (8 cores, 16 threads) with up to 64 GB of 3200 MT/s DDR4 memory, the PXIe-3161a easily performs execution of numerous independent tasks simultaneously in a multi-tasking environment. With an auto configure PCIe switch, the PXIe-3161a 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 JYTEK PXIe-3161a provides ample interface flexibility, including two DisplayPort connectors, allowing connection to two monitors, two USB 3.1 Gen1 5Gbps connection for high speed peripheral device, dual Ethernet ports, with one 2.5 GbE for high speed LAN connection and the other for controlling LXI instruments, four USB 2.0 ports for peripheral devices and USB instrument control.

Features

- 11th Gen Intel Xeon W-11865MRE processor (codename "Tiger Lake")
- 8 cores and 16 threads
- Up to 64 GB dual channel DDR4 memory at 3200 MHz (ECC memory)
- 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
- Integrated I/O
  - 2 USB 3.2 Gen1 5Gbps port
  - 4 USB 2.0
  - Dual Ethernet port: 2.5GbE port and GbE port
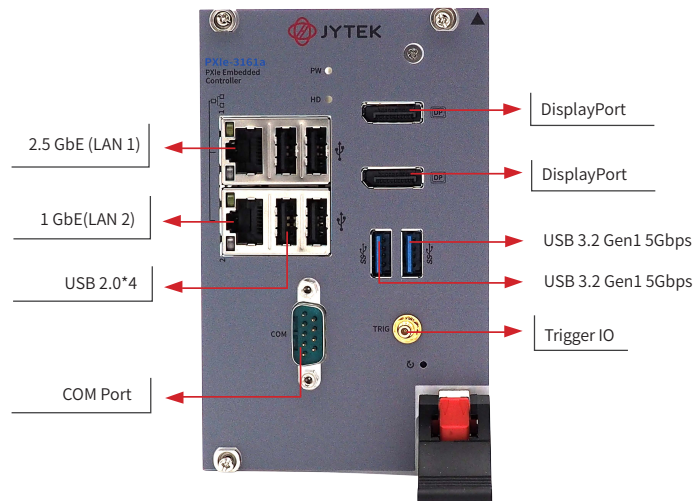 - 1 RS-232 port
- 操作系统
  - Windows 10
  - Linux 64-bit

Special Operating Restriction

- For display connections, it is recommended that customers first use a DP (3161a end) to DP (display end) cable. If this is not possible, consider using a DP (3161a end) to HDMI (display end) cable. or VGA (display end)

- BIOS Boot Mode: Only UEFI mode is supported; Legacy mode is not supported.

Ordering Information

- PXIe-3161a（PN：JY3414090-01 ）
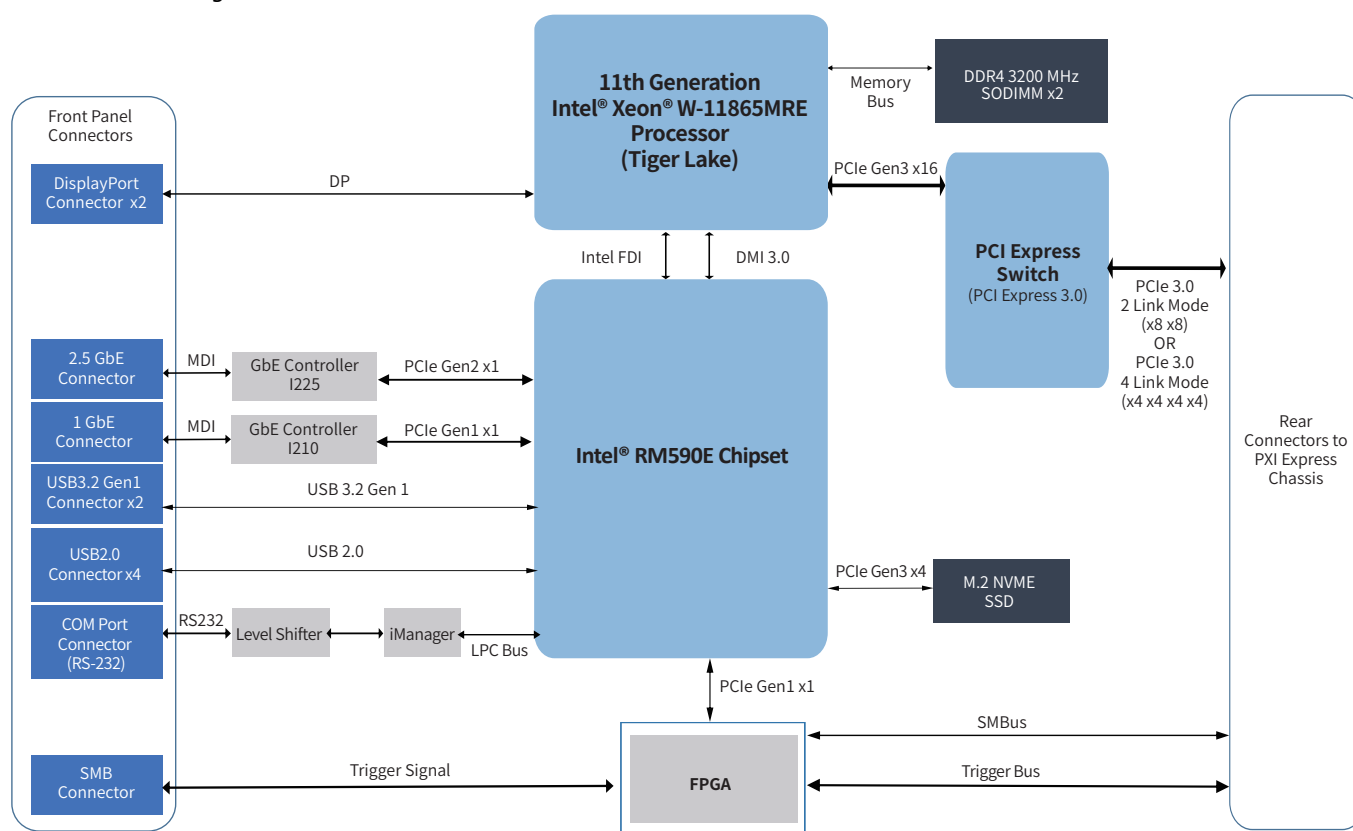 3U Intel Xeon W-11865MRE PXIe Gen3 Controller with 16GB memory & 500GB NVMe SSD, Windows 10 Enterprise LTSC 64-bit

Product Illustration

- 2.5 GbE (LAN 1)
- 1 GbE(LAN 2)
- USB 2.0*4
- COM Port
- DisplayPort
- DisplayPort
- USB 3.2 Gen1 5Gbps
- USB 3.2 Gen1 5Gbps
- Trigger IO

Specifications

Model Name	PXIe-3161
Core Features	
CPU	Intel® Xeon® W-11865MRE 2.6GHz (Turbo 4.7GHz)
DMI	DMI 3.0 8GT/s
Chipset	Intel® RM590E
Memory	Up to 64 GB dual channel DDR4 memory at 3200 MT/s (ECC memory)
Display	
DisplayPort	3840 x 2160 @60Hz DisplayPort adapters to other standards are available, w/ max. resolution dependent on adapter. Support DisplayPort to VGA or HDMI.
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 NVME M.2 SSD
Ethernet	Intel® Ethernet controller I225-IT, I210
USB	2 x USB 3.2 Gen1 and 4 x USB 2.0, front-mounted
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	0.9 kg (2.2 lbs)
Operating Temp.	0°C to 55°C (32˚F to 131˚F) w/ SSD
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
Operating System	Windows 10, Linux 64-bit

Functional Block Diagram

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