

PXle-3123a

3U PXle Intel Core i3 - 11100HE System Controller



PXle-3123a

Introduction

The JYTEK PXle - 3123a PXI Express embedded controller is powered by the 11th generation Intel® Core™ i3 - 11100HE processor (4 cores, 8 threads, up to 4.4 GHz), designed specifically for PXI Express - based testing systems, delivering reliable computing power for diverse test and measurement applications.

Featuring an integrated PCI Express switch, the PXle - 3123a supports configurations of four links x4 or two links x8 PXI Express, achieving a maximum system throughput of up to 16 GB/s via the PCI Express 3.0 bus.

The PXle - 3123a offers comprehensive interface flexibility, including two DisplayPort connectors for dual - monitor setups, two USB 3.2 Gen1 ports for high - speed peripheral devices, dual Ethernet ports (2.5GbE and 1GbE, one for LAN connection and the other for LXI instrument control), four USB 2.0 ports, one RS-232 COM port, and an SMB Trigger I/O for precision PXI triggering.

特点

- 11th Gen Intel Core i3 - 11100HE processor
(4 cores, 8 threads, up to 4.4 GHz)
- Up to 64 GB dual - channel DDR4 memory at 3200 MT/s
(non - ECC memory)
- Maximum system throughput of 16 GB/s via PCI Express 3.0
- Supports four links x4 or two links x8 PXI Express configurations
- Integrated I/O
 - ◇ 2 USB 3.2 Gen1 (5Gbps)
 - ◇ 4 USB 2.0
 - ◇ 2 Ethernet ports (2.5GbE, 1GbE)
 - ◇ 1 RS - 232 port
 - ◇ Trigger I/O for advanced PXI triggering functionality

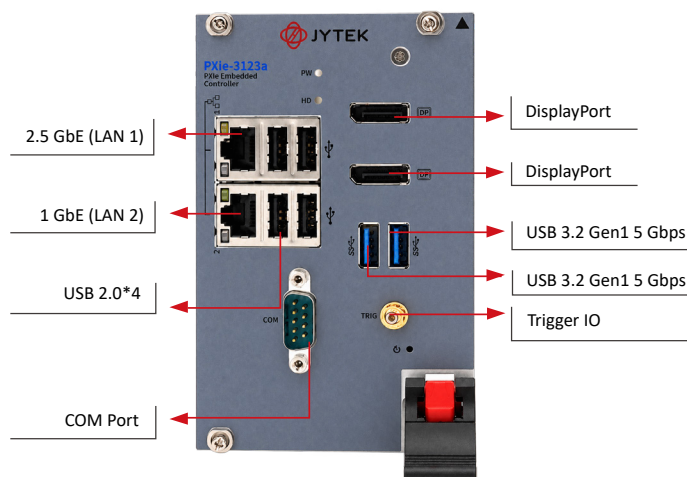
Operating System

- Windows 10 Enterprise LTSC 64 - bit
- Linux 64-bit

Ordering Information

- PXle-3123a
3U Intel Core™ i3 - 11100HE PXle Gen3 Controller with 16 GB memory & 1 TB NVMe SSD, Windows 10 Enterprise LTSC 64-bit

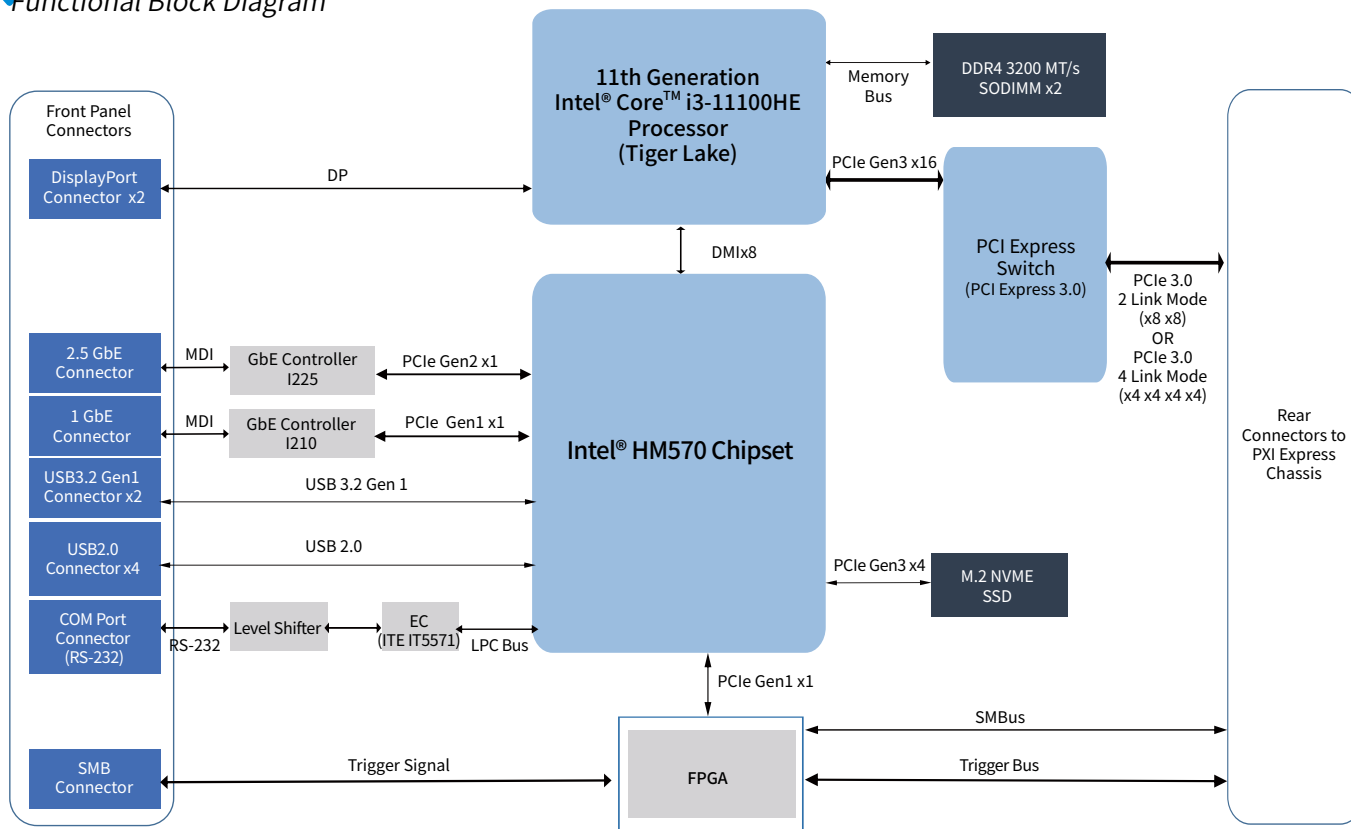
Product Illustration



Specifications

Model Name	PXIe-3123a
Core Features	
CPU	Intel Core i3 - 11100HE, up to 4.4 GHz, 4 cores, 8 threads
Memory	Up to 64 GB dual-channel DDR4 at 3200 MT/s (non - ECC memory)
Display	
DisplayPort	Two DisplayPort connectors supporting resolutions up to 3840x2160 @60 Hz
PXI Express Chassis I/O	
Bus	PCI Express 3.0, up to 16 GB/s System Bandwidth
System Bandwidth	Up to 16 GB/s
PXIe Link Configuration	2 Link Mode: x8 x8; 4 Link Mode: x4 x4 x4 x4
I/O Connectivity	
Storage	One NVME M.2 1TB SSD
Ethernet	Intel Ethernet controller I225 (2.5GbE) and I210 (1GbE)
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



注：保留所有权利。所有规格如有更改，恕不另行通知