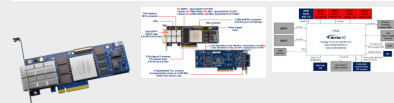




XpressGXA10-LP1150



The XpressGXA10-LP1150 is a Low Profile Arria10 GX PCIe board which provides to customers an off-the-shelf Best-In Class hardware solution for HPC or Networking applications. The board hosts 1 bank of DDR4 and 4 banks of QDR2+ memories and two QSFP+ cages for multi 10GbE/40GbE networking solutions

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RELATED PRODUCTS

XpressGX5-LP SE



The XpressGX5LP-SE board is a low-profile PCIe add-in card engineered for low-latency, high performance network computing.

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FPGA and configuration modules

- JTAG connector for external USB blaster
- EPCQL1024 for Active Serial (AS) configuration mode (2 sectors for fail safe feature)

Memory

XpressGXA10 LP1150	Arria 10 GX FPGA	DDR4 memory	QDR2+ memory
Basic XpressGXA10- LP1150B	10AX115N4F0I3SG "core speed grade -3"	1 x bank 4 GB DDR4 5 x memory chip 8Gbits 1 Rank datarate=1866 MT/s	--
Turbo XpressGXA10- LP1150T	10AX115N2F40I1SG "core speed grade -1"	1 x bank 4 GB DDR4 5 x memory chip 8Gbits 1 Rank datarate=2400 MT/s	4 x bank 72 Mbits QDR2+ 18 bits datarate = 633 MHz
Ultra XpressGXA10- LP1150U	10AX115N4F0I3SG "core speed grade -3"	1 x bank 4 GB DDR4 5 x memory chip 8Gbits 1 Rank datarate=1866 MT/s	4 x bank 144 Mbits QDR2+ 18 bits datarate = 500 MHz

Communication Interfaces

- PCI Express x8 2.5/5.0/8.0 Gbps (Gen 1, 2 or 3)
- PCI Express edge connector
- 2 x QSFP+ Optical cage
 - 2 x 40GBASE-LR4/SR4 or
 - 2 x 4 10GBASE-LRM/SR/LR (requires QSFP splitter cable) or 1000BASE-T/TX (requires QSFP splitter cable)
 - Other protocols supported by the QSFP modules

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- On board programmable PLL oscillator (SI5341), highly flexible and configurable clock generator/buffer. This component provides special and high quality clock signals for high-speed transceivers and memory FPGA controller.
- The clock generator SI5341 is controlled by the FPGA through an I²C serial interface, the user can modify one of the 9 output clocks frequency between 0.0001 MHz to 750 MHz
- On board oscillator high precision provides clock accurate 20MHz-0.05ppm

Power Supply

- Max 80W
- The XpressGXA10-LP1150 is delivered with a custom passive heatsink

Operating Range

- 0°C to 70°C

Board Size

- Length : 16.77cm (6.59in)
- Height : 6.89cm (2.71 in) / Low Profile PCIe
- Thickness : 1.57 mm (0.062 inches) / Standard Thickness PCIe

Standards and compliance

- RoHS/REACH compliant
- UL certified
- ISO9001 Facility

Front description:

PCI Express Network Processing FPGA Board Low-profile Altera Arria 10 GX Board Featuring PCIe Gen3 X 8 and 8X10G Ethernet



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