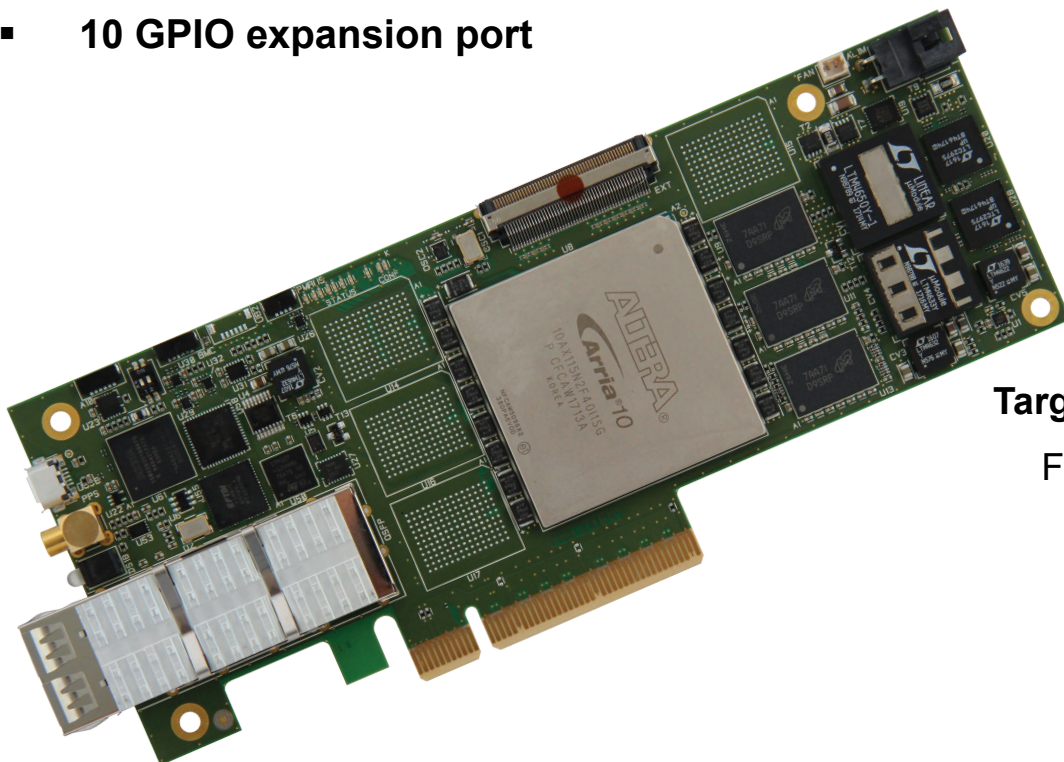


# XpressGXA10-LP1151

## Low-profile PCIe Network Processing FPGA Board Featuring 40G Ethernet

- Low-profile PCIe board using Intel Arria 10 GX 1150 KLE
- Single slot passive cooling for servers
- Designed for fog computing and ultra low latency applications
- PCIe Gen3 x8 interface
- 8 GB on board DDR4 (x 72bit)
- QSFP+ cage 10/40 GbE ports
- Board Management Controller (BMC) with IPMI features
- 10 transceiver expansion port
- 10 GPIO expansion port

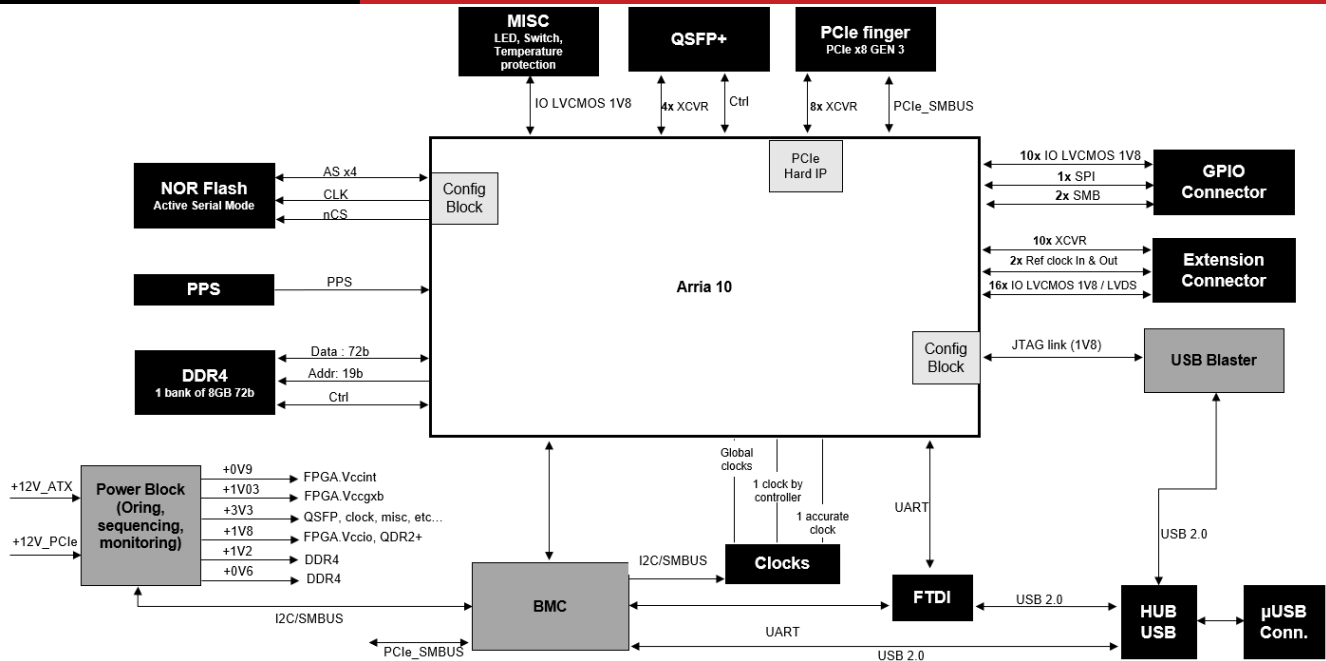


### Target applications:

Fog Computing  
Finance  
Acceleration  
Networking  
Security



# XpressGXA10-LP1151



## Full Specifications

### FPGA and Configuration Modules

- Intel Arria 10 GX 20nm FPGA : 10AX115N2F40I1SG
- NOR Flash for Active Serial (AS) configuration mode (2 sector for fail safe feature)

### Communication Interfaces

- PCI Express x8 (Gen 1, 2 or 3)
- QSFP+ quad optical cage (4 XCVR:10.3125 Gb/s per link)
  - 10GbE/40GbE networking interface
  - Other protocols supported by the QSFP module

### Memory

- 1 bank on board 8GB DDR4, 72bit (ECC), up to 2400 MT/s

### Power

- External auxiliary connector (12V)
- Max 80W
  - Single slot passive heat-sink

Operating Range : 0°C to 40°C

Storage Temp Range : 0°C to 70°C

## Deliverables

- Low-profile (half-height) form factor PCIe Board
- Board Support Package (Manual, Test Designs)
- PCIe Power Supply adapter cable (same as GPU)
- PCIe Low profile or Standard bracket
- Mechanical files 3D DWF/STEP models and 2D drawings (upon request)
- SDK for Windows 10 64Bits
- SDK for Linux Debian Stretch 64Bits (on request for other Linux distribution)
- WinDriver™ PCIe device driver from Jungo

## Ordering informations

### Part number

- Basic = XpressGXA10-LP1151B

### Description

- Intel Arria 10 GX 10AX115N2F40I1SG, 8GB DDR4