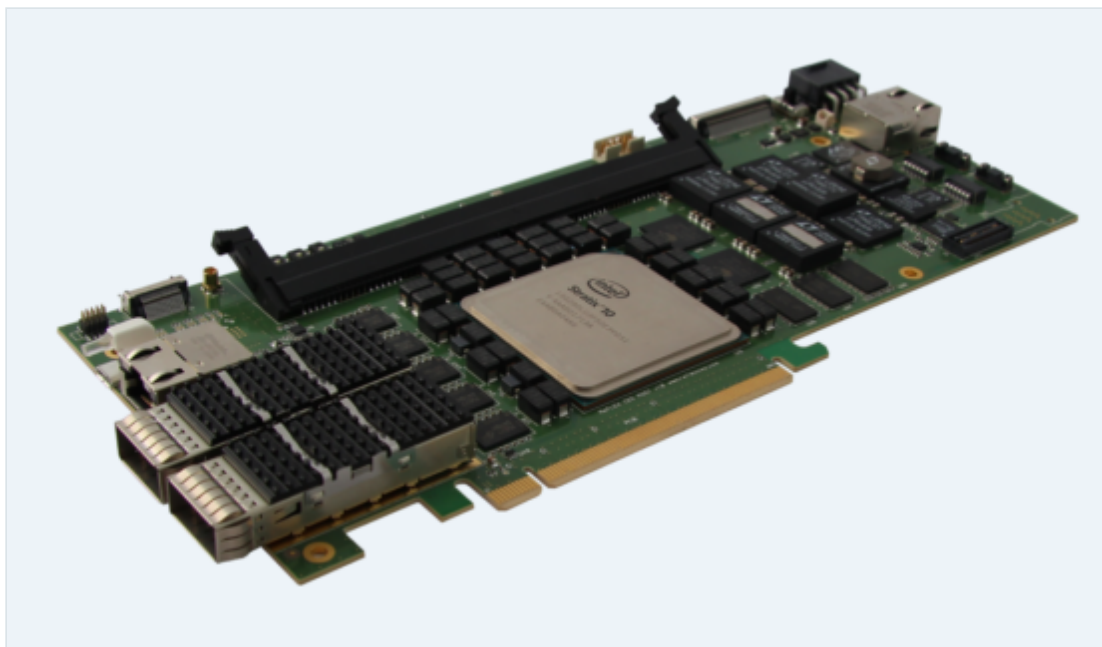


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XpressGX/SX S10-FH200G Stratix® 10 FPGA COTS board

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Guido Mieth



PRODUCT OVERVIEW

The XpressGX S10-FH200G and the XpressSX S10-FH200G are full height PCIe Network Processing boards, featuring the Intel® Stratix® 10 FPGA with support for up to 200G Ethernet

Target markets include Data Center and Cloud Computing, Finance, High Performance Computing, Military & Defense, Broadcast and Video

BENEFITS & FEATURES

DIAGRAMS

TECH SPEC

VIDEOS

DELIVERABLES

Tech spec

FPGA Configuration

- Stratix® 10 FPGA L-tile (1SG280LU3F50E2VG) and H-tile (1SG280HU1F50E2VG) versions
- 10M16SAU169I7G MAX10 CPLD
- USB2.0 Micro connector for JTAG, UART and BMC access
- 1x NOR Flash 1GB quad SPI FPGA AS configuration
- 1x NOR Flash 1GB for Avalon-ST8 configuration mode

Memory

- 1x bank DDR4 VLP RDIMM 25° socket , 16GBBytes, x72bit, up to 2400 MT/s *
OR 1x bank QDR2+Xtrem 2 chips 72Mbit, x36bit, up to 633MHz, custom RDIMM
- 1x bank DDR4, 8GBBytes, x72bit, up to 2400MT/s *
- 1x bank DDR4, 4GBBytes, x72bit, up to 2400MT/s * (HPS bank mutual with FPGA)
- 2 x banks QDRII+ Xtrem 72Mbit each x18bit, up to 633MHz

* Please contact the sales team to understand the limitations of ES FPGA based boards

- PCIe Gen3 x16 (Gen4 x8 capable)

- 2x QSFP28 quad optical cage (2 x 4 XCVR : 17 Gb/s or 28 Gb/s per link)
- 2x SAMTEC FireFly quad connector (17 Gb/s or 28Gb/s each XCVR) - 1 FireFly connected to 100G IP
- MiniSAS quad connector (1 HD SAS, 4 SATA HDD, NVMe interface capable)
- GPIO extension connector : 9 LVDS usable as 18 LVCMOS
- XCVR extension connector : 10 XCVR, 8 LVDS, Clock In&Out
- 48 dedicated HPS IO connector useable for custom daughter board for the SX version

Other resources

- Programmable PLL oscillator (Si5341), output clocks frequency between 0.0001 MHz to 750 MHz
- High precision oscillator, clock accuracy 20MHz- 0.05ppm for Precision Time Protocol (PTP) IEEE 1588
- One coax connector for PPS (pulse per second)
- Max10 USB Blaster on board, UART over USB interface
- Board Management Controller (BMC) for monitoring, EPCQ and clock programming, IPMI features

Power

- Max 240W, Delivered with a custom 1 slot PCIe passive heat-sink

• 8-pin ATX Power supply connector with Oring protection

REFLEXCES



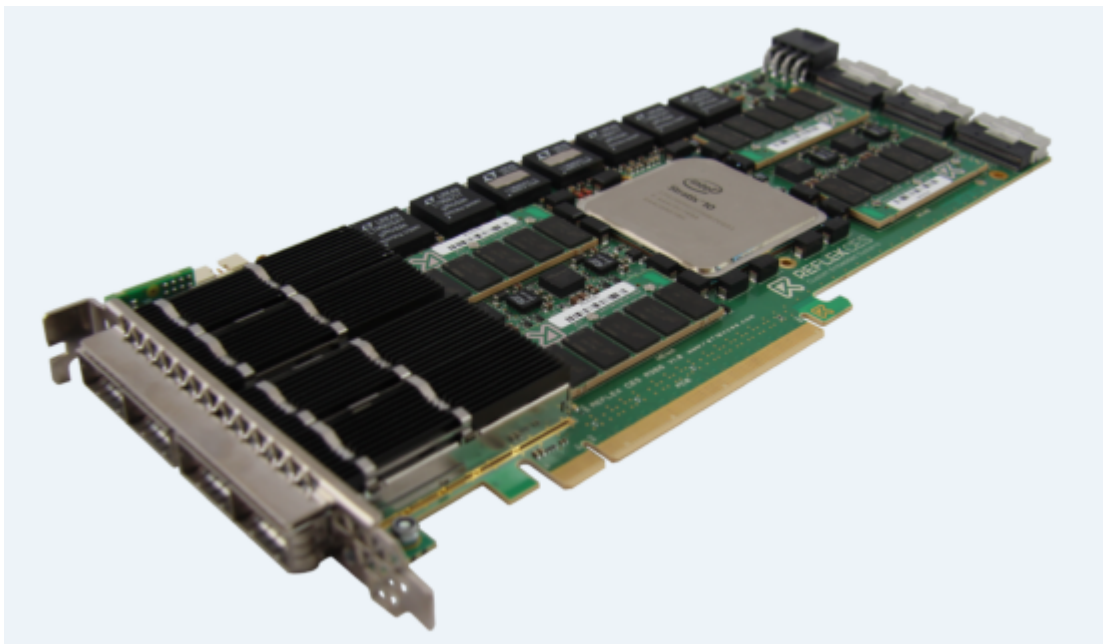
Operating Range : 0°C to 70°C

Board Dimensions : 254mm x 111.15mm

Standards and compliance

- RoHS/REACH compliant
- UL certified
- ISO9001 Facility

RELATED PRODUCTS



XpressGX S10-FH800G Stratix® 10 FPGA COTS board



INTEL COTS BOARDS

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