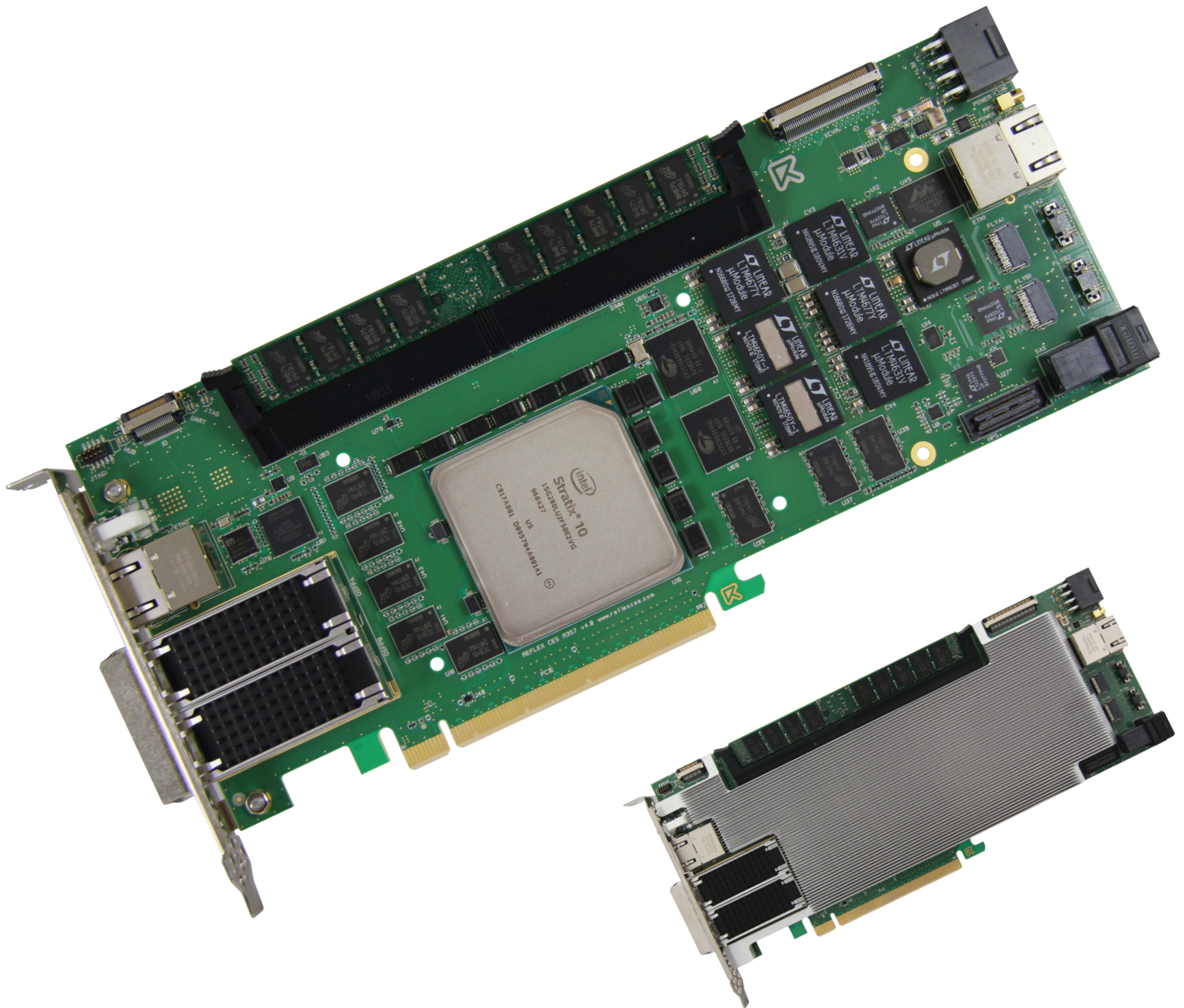


XpressGX S10-FH201G

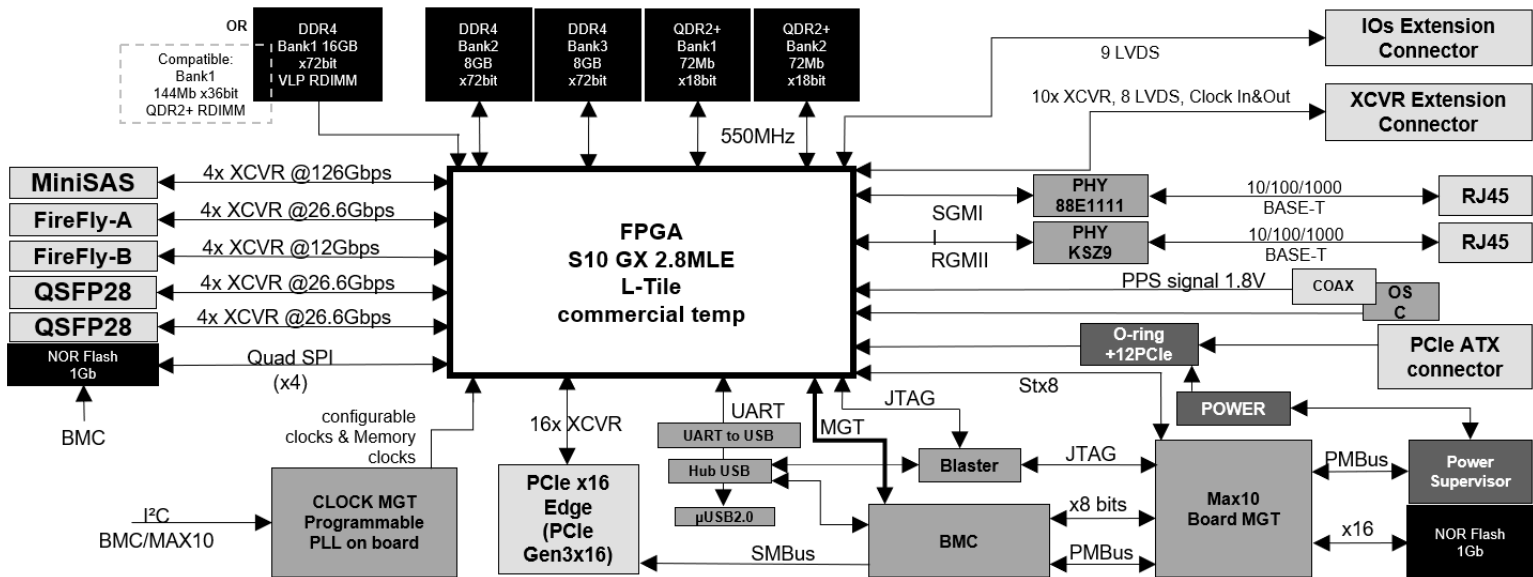
Full height profile PCIe Network Processing FPGA
board



Intel® Stratix® 10 GX
2800 KLE
PCIe Gen3 x16

- 2x100 GbE
- 3x DDR4, 2x QDR2+Xtrem
- Board-to-board connection

- Networking Acceleration
 - Finance
- High Performance Computing



Full Specifications

FPGA Configuration	- Stratix® 10 GX, L-tile 26Gbps 10M16SAU169I7G MAX® 10 CPLD - USB2.0 Micro connector for JTAG, UART and BMC design 1x Nor Flash 1GB quad SPI FPGA AS configuration 1x Nor Flash 1GB for configuration mode ST8	Board Management Controller	- FPGA monitoring - NOR Flash and clock programming
Memory	2x bank DDR4, x72bit, 8GBBytes @2400MT/s 2x banks QDR2+ Xtrem 72Mbit each x18bit, up to 550MHz 1x bank DDR4 VLP RDIMM 25° socket, 16GBBytes, x72bit, up to 2400MT/s OR custom RDIMM to develop: 1x bank QDR2+ Xtrem 2 chips 72Mbit, x36bit, up to 550MHz	Communication Interfaces	- PCI Gen3 x16 2x QSFP28 quad optical cage: 4x full-duplex @26.6Gbps per QSFP-28 - FireFly-A: 2x 4x full-duplex @26.6Gbps - FireFly-B: 2x 4x full-duplex @12Gbps - MiniSAS quad connector (1 HD SAS, 4 SATA HDD, NVMe interface capable): 4x full-duplex @12Gbps - GPIO extension connector : 9 LVDS usable as 18 LVCMOS - XCVR extension connector : 10 XCVR, 8 LVDS, Clock In&Out
Power	- Max 180W, Delivered with a custom 1 slot PCIe passive heat-sink 8-pin ATX Power supply connector with Oring protection	Other Resources	- Programmable PLL oscillator (Si5341), output clocks frequency between 0.0001 MHz to 750 MHz - High precision oscillator, clock accuracy 20MHz- 0.05pp for Precision Time Protocol (PTP) IEEE 1588 - One coax connector for PPS (pulse per second) - Max10 USB Blaster on board, UART over USB interface
Operating Range	0°C to 40°C	Standards and Compliance	- RoHS/REACH compliant - UL certified - ISO9001 certified
Storage Temp Range	0°C to 70°C		
Board Dimensions	254mm x 111.15mm		

Deliverables

- Full height 1 slot PCIe board with passive heat-sink and PCIe bracket
- 16GB DDR4 VLP RDIMM module
- Board Support Package (Manuals, HDL test Designs, Extension connectors FPGA pinout connection)
- Online support at support.reflexces.com
- WinDriver™ PCIe device driver from Jungo

Ordering information

XpressGXS10L-FH201GT = Stratix® 10 GX L-Tile 26Gbps (1SG280LU2F50E2VG), 3 banks DDR4, 2 banks QDR2+Xtrem