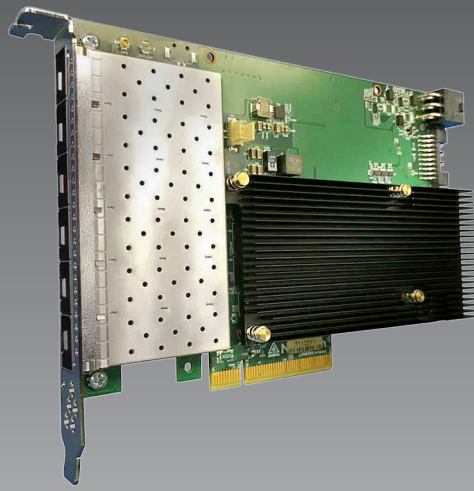




385A-SFP
PCIe FPGA Board



Arria 10 PCIe FPGA Board

1/2-Length PCIe with Six SFP+ and DDR3

The 385A-SFP network accelerator card provides a powerful PCI-Express compute and high-density I/O platform for processing high-speed network traffic, FPGA development and deployment across a range of application areas including inline error correction, network traffic storage, and high frequency trading.

Key Applications

Designed to address a range of latency-critical applications:

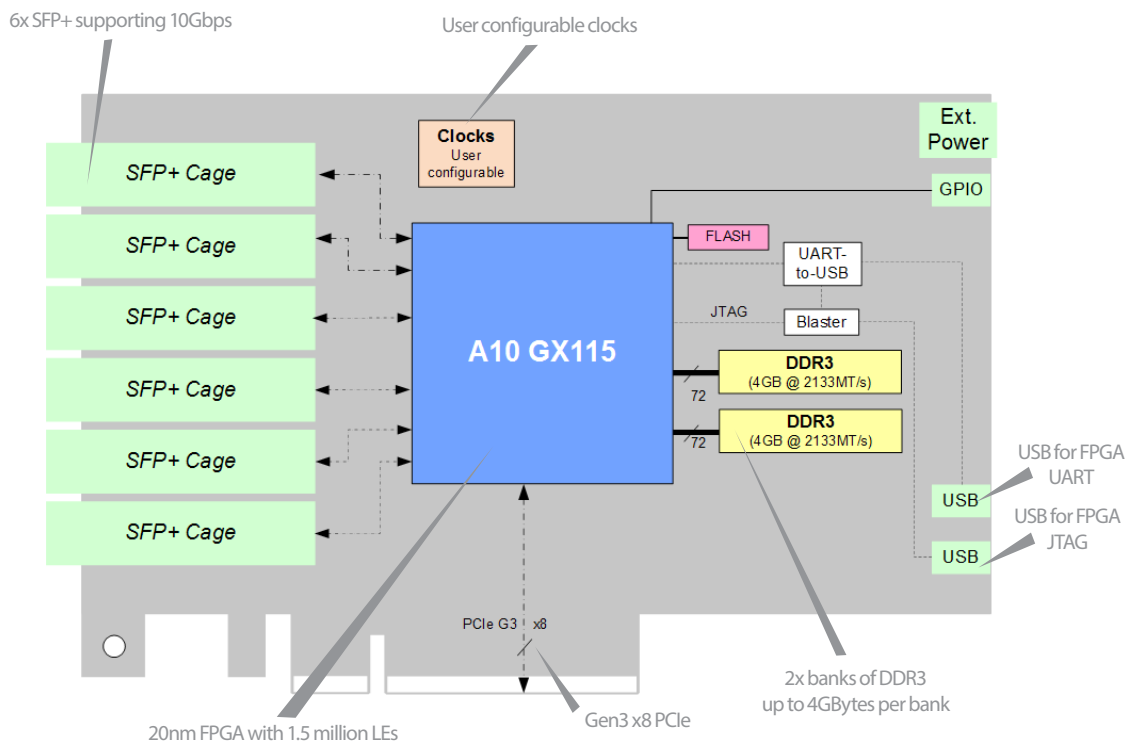
- Macrocell monitoring
- Macrocell inline digital RF filtering
- RF interference monitoring across CPRI
- CRAN monitoring using multiple cards across the PCIe bus
- Backhaul monitoring of Ethernet traffic
- High Frequency Trading
- Video Transcoding
- Medical Imaging

key features

Intel Arria 10
GX 1150

6x SFP+
for 10Gbps

8 GBytes
DDR3



Additional Services

Take advantage of BittWare's range of design, integration, and support options



Customization

[Additional specification options](#) or [accessory boards](#) to meet your exact needs.



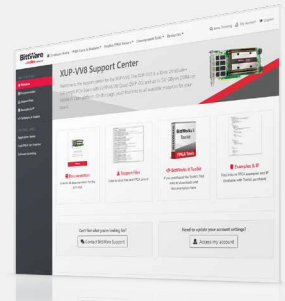
Server Integration

Available pre-integrated in our [TeraBox servers](#) in a range of configurations.



Application Optimization

Ask about our services to help you port, optimize, and benchmark your application.



Service and Support

BittWare Developer Site provides online documentation and issue tracking.

Board Specifications

FPGA	<ul style="list-style-type: none"> Intel Arria 10 GX <ul style="list-style-type: none"> 1150GX in F45 package Core speed grade -2: I/O speed grade -3 Contact BittWare for other Arria 10 GX options
On-board Flash	<ul style="list-style-type: none"> Flash memory for booting FPGA
On-board memory	<ul style="list-style-type: none"> Two banks of DDR3 SDRAM x 72 bits 4GB per bank (8GB total /16GB and 32GB version also available) 2133MT/s per bank
Host interface	<ul style="list-style-type: none"> x8 Gen3 interface direct to FPGA
SFP+ cages	<ul style="list-style-type: none"> 6 SFP+ cages on front panel connected directly to FPGA via 6 transceivers Supports 1/10Gb Ethernet, Fiber Channel, and CPRI rates up to 10 Gbps Clocked by up to four independent sources Clocking options: <ul style="list-style-type: none"> User clock programming via I2C Flexible low jitter clocking External clock input, 1PPS
GPIO	<ul style="list-style-type: none"> Single ended and differential GPIO connector
Power Supply Monitoring & Reporting	<ul style="list-style-type: none"> On-board Intel USB-Blaster II Power and temperature monitoring
Cooling	<ul style="list-style-type: none"> Standard: single-width active heatsink (embedded fan) Optional: single-width passive heatsink

Electrical	<ul style="list-style-type: none"> On-card power derived from host motherboard PCIe slot and optional external power source Power dissipation is application dependent Typical max power consumption 75W
Environmental	<ul style="list-style-type: none"> Operating temperature: 5°C to 35°C
Quality	<ul style="list-style-type: none"> Manufactured to ISO9001:2008 IPC-A-610-Class RoHS compliant
Form factor	<ul style="list-style-type: none"> Standard-height, half-length PCIe single-slot board 167.6mm x 110.9 mm x 17mm

Development Tools

FPGA development	BIST - Built-In Self-Test for CentOS 7 provided with source code (pinout, gateway, PCIe driver & host test application)
Application development	Supported design flows - Quartus Prime Pro (HDL, Verilog, VHDL, etc.)

Deliverables

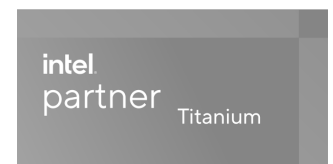
- 385A-SFP FPGA board
- USB cable (back panel access)
- Built-In Self-Test (BIST)
- 1-year access to online Developer Site
- 1-year hardware warranty

To learn more, visit www.BittWare.com

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