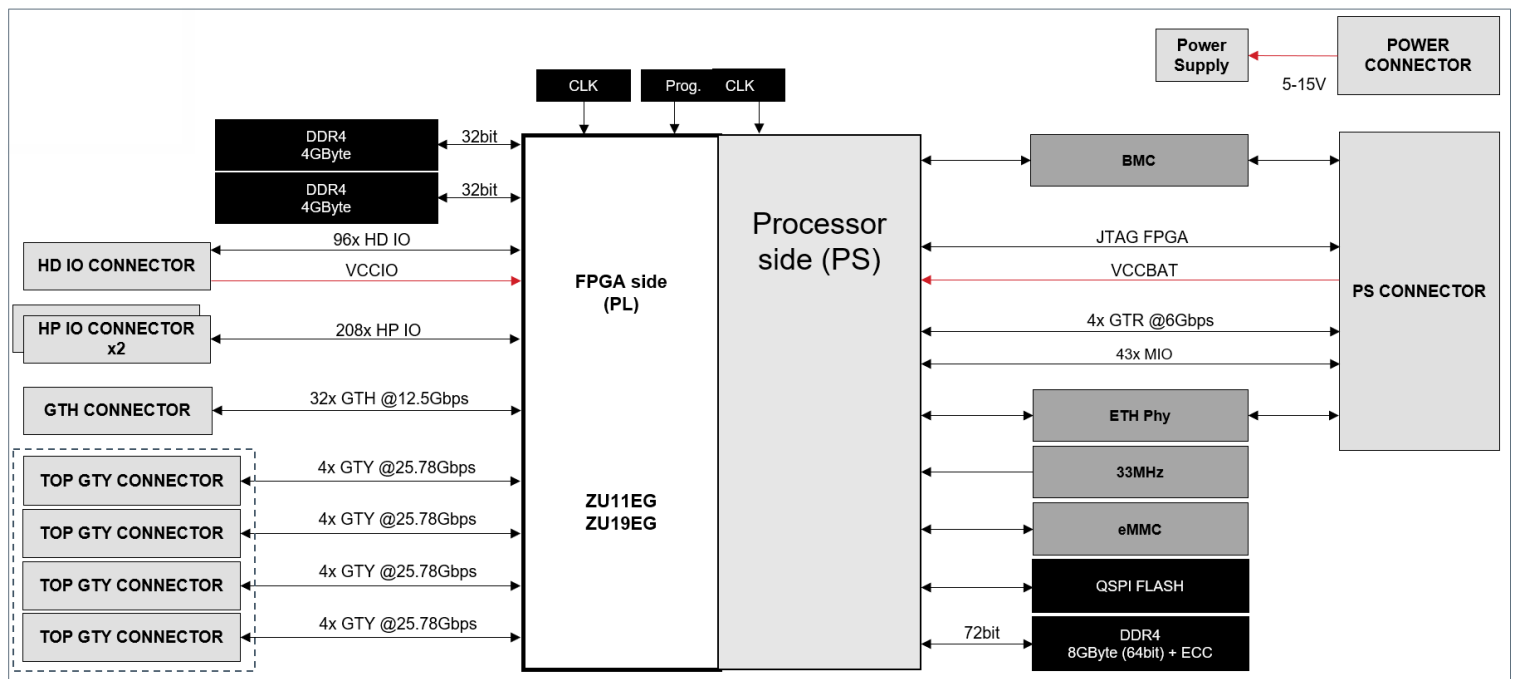
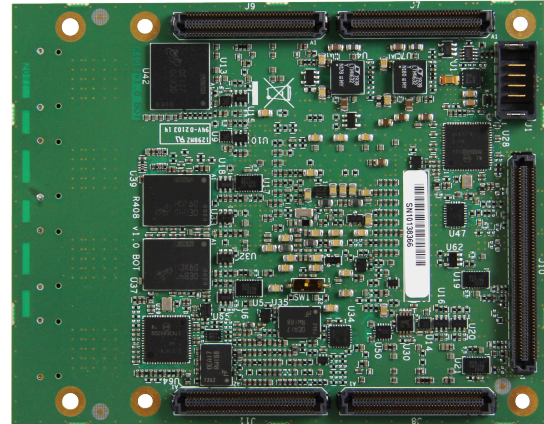




- Software Defined Radio
 - Radar Systems
 - Electronic Warfare
- High Precision Measurement
 - "Customizable"

Features	Zeus Zynq® UltraScale+™ MPSoC	
FPGA SoC	FPGA speed grade 1, Industrial Temp Range Quad-core ARM Cortex-A53 MPCore @1.2GHz Dual-core ARM Cortex-R5 MPCore @500MHz Mali™-400 MP2 @600MHz Zeus Indus ZU11EG : XCZU11EG-1FFVC1760I device Programmable Logic 653 KLC Total Block RAM 21.1MB, UltraRAM 22.5Mb, 2928 DSP Slices Zeus Indus ZU19EG : XCZU19EG-1FFVC1760I device Programmable Logic 1143 KLC Total Block RAM 34.6MB, UltraRAM 36.0Mb, 1968 DSP Slices	
DDR4 Memory	PL= 2 banks 4GByte each @2400MT/s, x32bit	
	PS= 1 bank 8GByte @2400 MT/s, x64bit + x8bit ECC	
PS Communication & Networking	10/100/1000 Base-T Ethernet RGMII 43x MIO configurable for interface like: NAND flash, eMMC or SD card, ETH RGMII, USB, SPI, I2C, UART, GPIO	
Top Connectors	High Speed Accelerate connectors (GTY)	4x 4 serial transceivers channel (RX and TX) @25.78Gbps (Existing cable adapter to QSFP+ and SFP+ connectors)
Bottom Connectors	Processor (PS) Mezzanine connector	4x serial transceivers channel (RX and TX) @6Gbps PCIe Gen2 x4 Root Complex capable 43x MIO
	GTH Mezzanine connector	32x serial transceivers channel (RX and TX) @12.5Gbps PCIe Gen3 x16 End Point capable
	HP Mezzanine connectors	208x HP I/O high speed up to 1260 Mb/s, designed for high-speed chip-to-chip interfaces with voltages up to 1.8V 96x LVDS capability
	HD Mezzanine connector	96x HD I/O low speed up to 250 Mb/s, designed to support low-speed interfaces with voltages 3.3V, 2.5V, 1.8V, 1.2V
FPGA Configuration	JTAG available on Processor (PS) Mezzanine connector	
	Quad SPI 1Gbit NOR Flash for FPGA, remote upgrade and failsafe configuration	
Software Configuration	128GByte NAND Flash eMMC (Stores U-Boot, Linux Kernel, and RootFS)	
Mechanical & Environmental Specification	Module rugged for shocks and high vibration IEC/EN61000 (EMI immunity), EN61000 + EN55032 (EMI emission), EN60068 (Vibration: sinusoidal, 10Hz - 2KHz, +/- 0.15mm, 2g ; Shock: half-sinusoidal, 11ms, 15g) 5-15V Power Input Industrial temperature grade -40°C to +85°C Conformal coating (option on request)	
Power & Dissipation	Zeus Indus ZU11EG: 70W max, active heatsink (heat spreader + heatsink + fan) Zeus Indus ZU19EG: under definition	
Board Management Controller	Communication with Carrier board: I2C, UART, SMBus Communication with FPGA : 1x UART to PL, 1x UART to PS Monitoring : Current, voltages, temperature, ID information Programming : Clock, QSPI FPGA, QSPI BMC Control: Power, temperature protection, Fans	
Module dimensions	107mm x 85mm (4 x 3.4 inches) / 12mm thickness (38.6mm with active heatsink and heat spreader)	
Deliverables	Zeus Zynq® UltraScale+™ MPSoC module Active heatsink with heat spreader	
Ordering Information	Zeus Indus ZU11EG: RXCZUP11EGPF42-SOM011 Zeus Indus ZU19EG: RXCZUP19EGPF42-SOM011 – available Q2-2023	



- 1-year technical support
- 1-year warrantee
- Online support at support.reflexces.com

