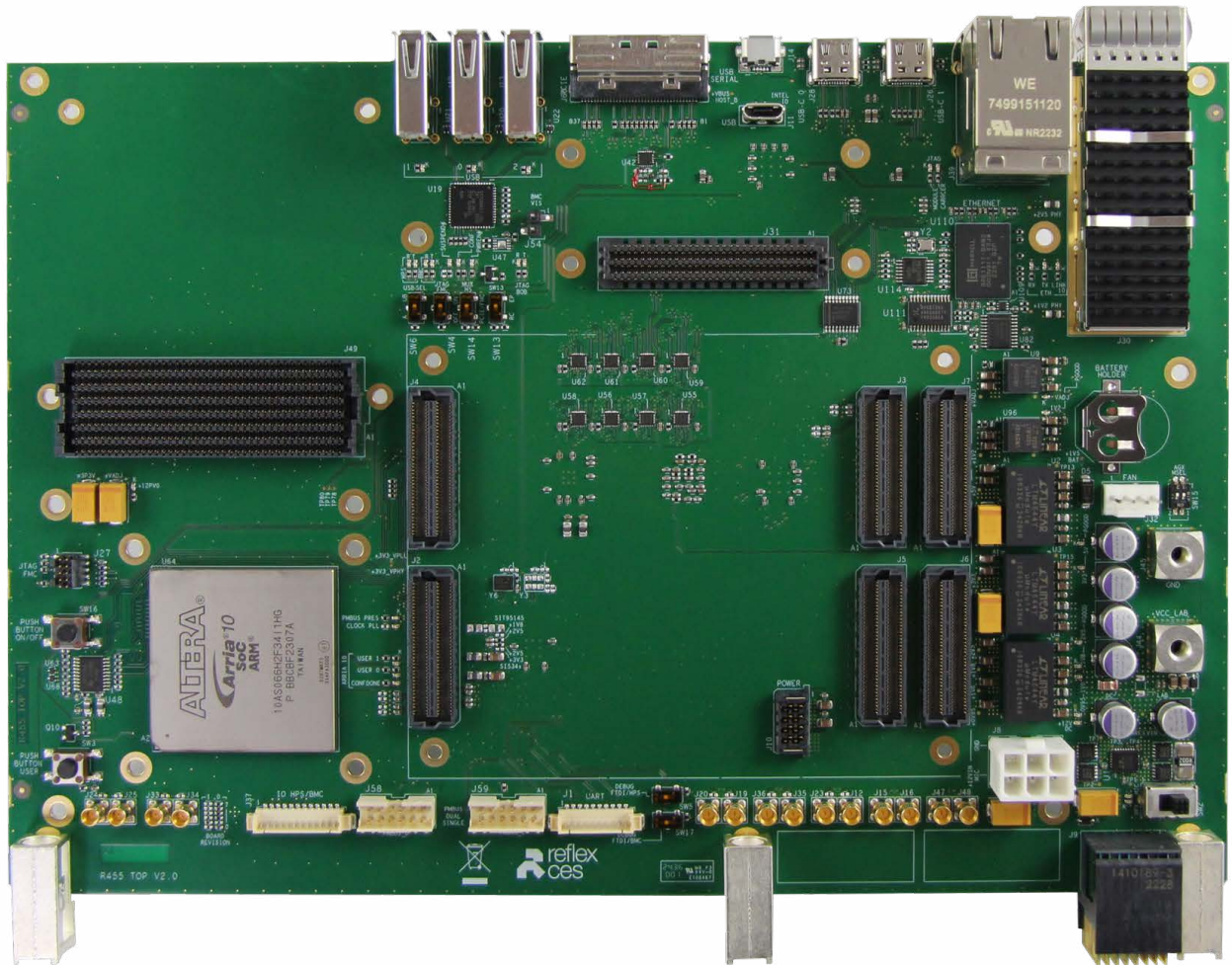
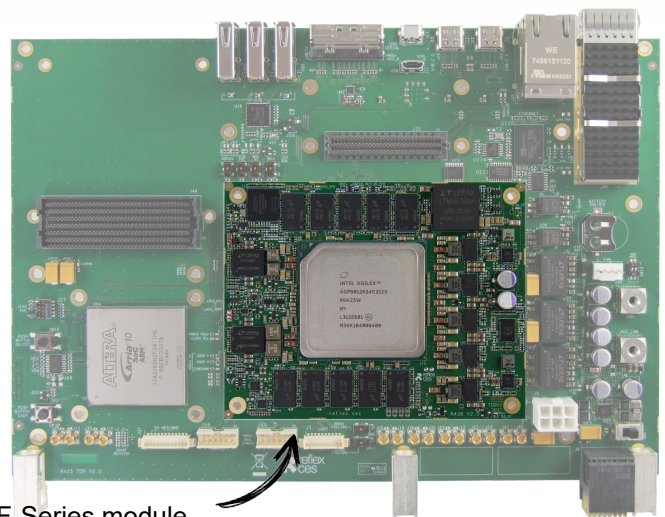


Ares Agilex™ 7 SoC F-Series SoM 6U VPX Carrier Board



Target applications:

Bioscience & Instrumentation
Quantum Computing
Radar Systems
Electronic Warfare
Satellite Communication



with Ares Agilex™ 7 SoC F-Series module

Contact :

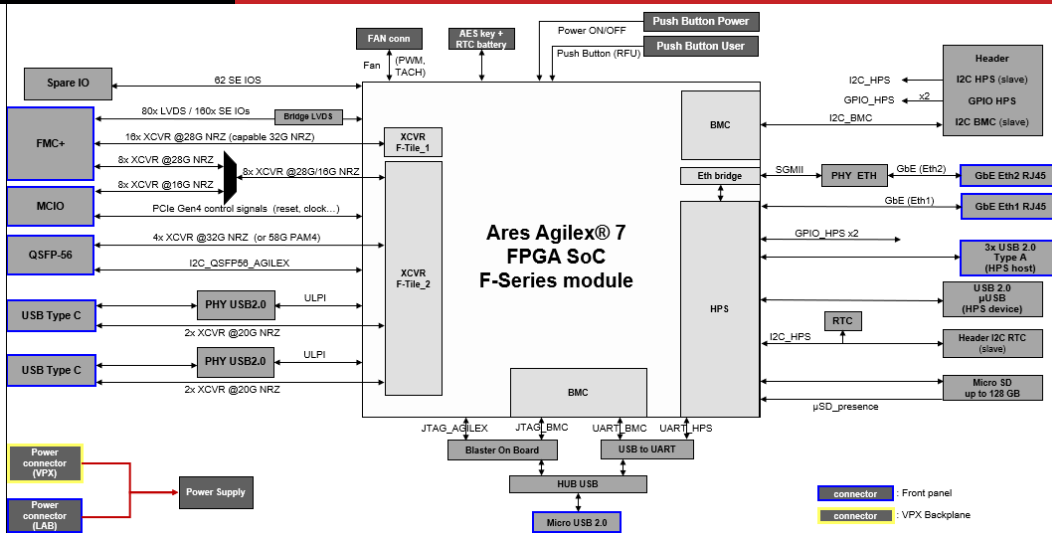
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sales@reflexces.com

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Ares Agilex™ 7 SoC F-Series SoM Carrier Board



Full Specifications

FPGA Interfaces

- FMC+ HPC connector =
 - Up to 16 transceivers @28G NRZ (capable 32G NRZ)
 - 80 LVDS / 160 SE I/Os: LVDS bridge (VITA 57.4 compliant)
- QSFP-56 connector: 4x XCVR @32G NRZ or 58G PAM4
- 2x USB Type-C 40 Gbit/s connectors: D+ / D- , 2 XCVR @20G NRZ
- MCIO connector: PCIe Gen4 x8 EP/RC and control signals
- Spare IO connector = 62 single ended IOs
- USB to JTAG, RTC battery holder

Board dimensions

160mm x 233mm, Rackable 6U VPX board

The 6U VPX Carrier board can be power supplied either on the desk for evaluation with its stand-alone power supply or in the rackable mode through its VPX connectors

Carrier board capabilities

	FMC+	MCIO	QSFP-56	USB typeC #1	USB typeC #2
Config 1	Full	No MCIO	100GE-4 (NRZ : 4 XCVR up to @32G)	2 XCVR@32G NRZ	2 XCVR@32G NRZ
Config 2	(8 XCVR @28G NRZ + 16 XCVR @32G NRZ)		200GE-4 (PAM4 : 4 XCVR up to @58G)		
Config 3	Partial	No MCIO	100GE-4 (NRZ : 4 XCVR up to @32G)		
Config 4	(8 XCVR @56G PAM4)		200GE-4 (PAM4 : 4 XCVR up to @58G)		
Config 5	Partial	PCIe Gen4x8 (EP/RP)	100GE-4 (NRZ : 4 XCVR up to @32G)		
Config 6	(16 XCVR @32G NRZ)	8 XCVR@16G NRZ			
		2x PCIe Gen4x4 (RP)	100GE-4 (NRZ : 4 XCVR up to @32G)		
		8 XCVR@16G NRZ			

Deliverables

- 6U VPX Carrier board
- Power Supply
- Need to buy the Ares Agilex™ 7 SoC F-Series module separately
ordering information : RXCAGF012PR24-SOM001 or RXCAGF027PR24-SOM001

Ordering information

Part number = RXCAGF-CBD0SA

= Ares carrier board

(in production)