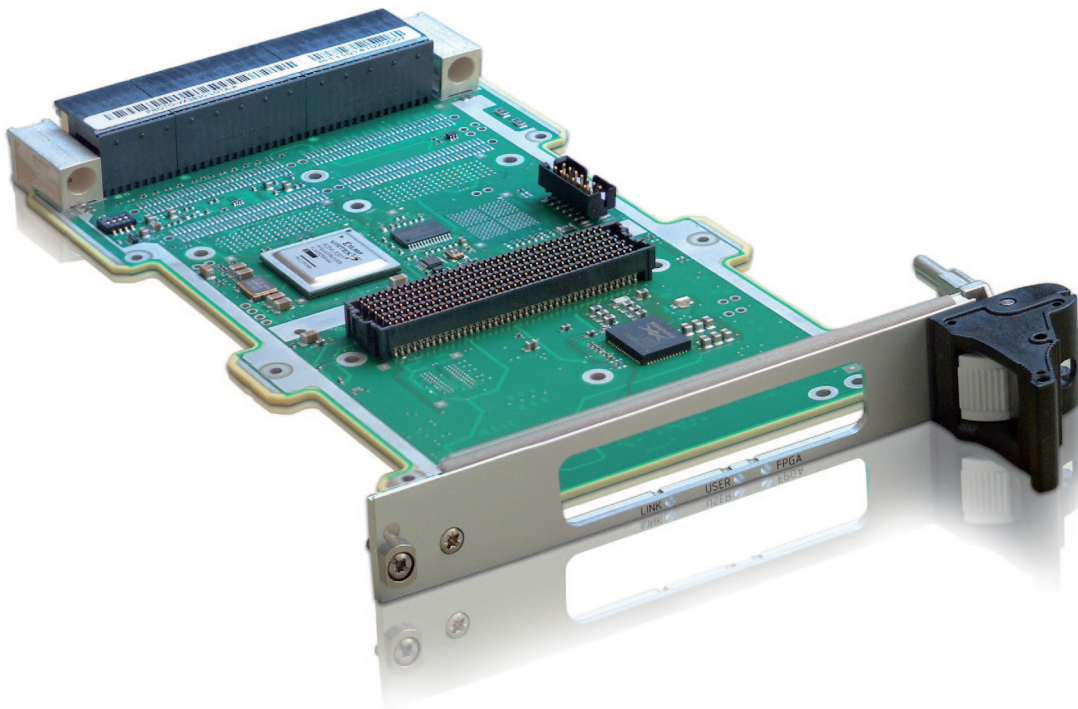


» VX3830 «



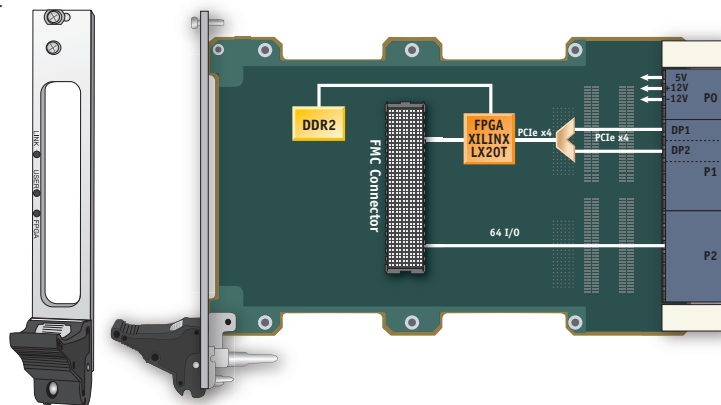
3U VPX Xilinx® Virtex®-5 FPGA Processor Board with FMC Site

- » 3U VPX Carrier Board for VITA 57 FPGA Mezzanine Cards (FMC)
- » Increased I/O Flexibility and Scalable Development Solutions
- » x4 or x1 PCI-Express Backplane Interface
- » Standard Air- and Rugged Conduction-Cooled Versions

VX3830 is a 3U FPGA Mezzanine Card (FMC) carrier board based on a Xilinx® Virtex®-5 FPGA. VX3830 is a member of Kontron's VITA 46 VPX Ecosystem which facilitates the implementation of VPX through an integrated offering.

The VITA 57 FMC standard defines an I/O mezzanine module connected to an FPGA located on a base-board or carrier board. It allows the I/O interface to be physically separated from the FPGA design and thus ease I/O interface module design changes while maximizing the carrier card reuse.

FMC modules are about half the size of PMC or XMC modules (similar width), but provide higher density host I/O.



Technical Information	
VPX Interface	PCI-Express interface to VPX Data Plane 1 (P1 wafers 1 to 4). Interface to Data Plane 2 (P1 wafers 5 to 8) is a build option*
FMC Interface	64 bits I/Os routed to VPX P2
Dimensions	99.85 mm x 162.54 mm 0.8 inch face plate (1 inch is a built option*)

* for build options, please contact Kontron

	Environmental Specifications	
	SA - Standard Commercial	RC - Rugged Conduction-Cooled
Conformal Coating	Optional	Standard
Airflow	1.5 m/s without throttling at 55°C	NA
Temperature	VITA 47-Class AC1	VITA 47-Class CC4
Cooling Method	Convection	Conduction
Operating	0° to +55°C	-40° to +85°C
Storage	-45° to +85°C	-45° to +85°C
Vibration Sine (Operating)	20/500 Hz: 2g	22/2,000 Hz: 2g
Random	VITA 47-Class V1	VITA 47-Class V3
Shock (Operating)	20g/11 ms Half Sine	40g/11 ms Half Sine
Altitude (Operating)	-1,640 to 15,000 ft	-1,640 to 50,000 ft
Relative Humidity	90% without condensation	95% without condensation

Ordering Information		
Article	Part.-No.	Description
VX3830-SA	VX3830-SA-00000	3U Air-Cooled Commercial Build, FMC carrier VPX DP1 Data Plane interface, FMC rear I/O routing on VPX P2
VX3830-RC	VX3830-RC-00000	3U Rugged Conduction-Cooled Build, FMC carrier VPX DP1 Data Plane interface, FMC rear I/O routing on VPX P2
Associated Products:		
VX3830-RTM	PB-VX3-000	3U VPX Rear Transition Module (with PIM connectors)

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#VX3830# 11082010MB
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