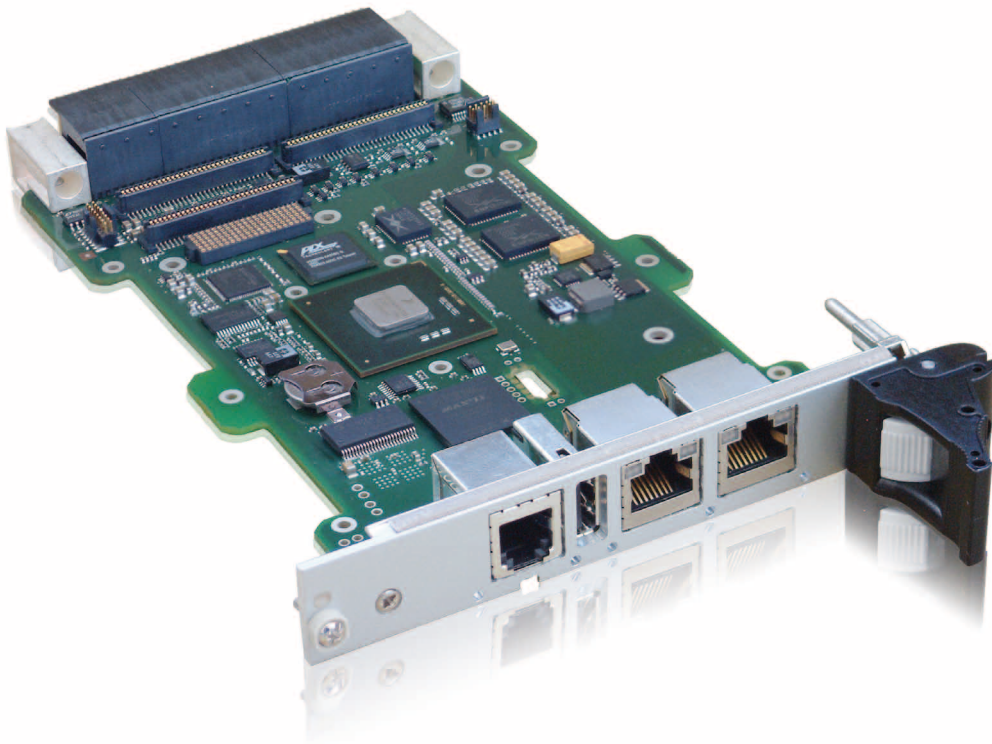


# » VX3230 «

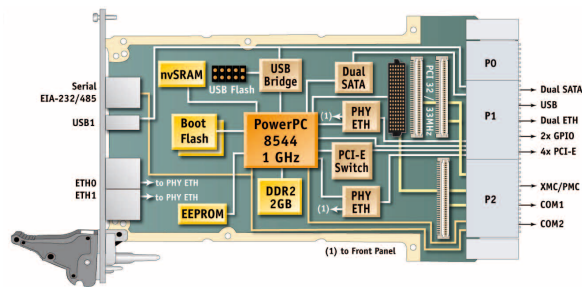


## Ultra Low Power 3U VPX Single Board Computer

- » VX3230 SBC implements VITA 46.0, 46.4, 46.7
- » PCIe (4x), SATA, Gigabit Ethernet on the VPX Backplane
- » 1 GHz Freescale MPC8544 PowerPC Processor
- » Air-Cooled and Rugged Conduction-Cooled Builds

The VX3230 is the first member of the new Kontron's VITA 46 VPX range of products. Its 1 GHz 8544 PowerPC processor gives you coolest implementation of a E500 core with plenty of features. With a requirement as low as 15 Watts (typ.) between -40° and + 85°C, the VX3230 is a major breakthrough for small form factor rugged computers.

Applications targeting Vetronics and onboard UAV which operate on a tight power budget will welcome its innovative design.



### Technical Information

<b>System processor</b>	Freescale MPC8544 running at 1 GHz 32-bit PowerPC E500 Core Double precision embedded scalar and vector floating-point APUs Memory Management Unit (MMU) Integrated Security Engine
<b>System Memory</b>	1 GB of DDR2-533 SDRAM with ECC support
<b>Flash Disk support</b>	Innovative USB connector allows concurrent Flash disk module AND PMC support
<b>I/O Connections</b>	Dual Gigabit Ethernet: dual ports configurable either on the front RJ-45 or on the rear VPX backplane connector Dual SATA-150 ports USB 2.0 port on rear VPX backplane switch interface: PCI-Express x4 Front Panel Interfaces: 2 build options - XMC/PMC front panel, no front Ethernet port - Dual Gigabit Ethernet and USB ports, no XMC/PMC

### Environmental Specifications

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

### Ordering Information

Article	Order-No.	Description
<b>VX3230-SA</b>	VX3230-SAA1N-000	VX3230 Air-Cooled Commercial Build, 1 GB SDRAM DDR2, USB Flash Disk slot and XMC/PMC slot
<b>VX3230-SA</b>	VX3230-SAA1N-001	VX3230 Air-Cooled Commercial Build, 1 GB SDRAM DDR2, USB Flash Disk slot, no XMC/PMC slot
<b>VX3230-RC</b>	VX3230-RCA1N-000	VX3230 Rugged Conduction-Cooled Build, 1 GB SDRAM DDR2, USB Flash Disk slot and XMC/PMC slot
<b>VX3230-RTM</b>	PB-VX3-000	VX3230 VPX Rear Transition Module with PIM connector
<b>VX3230-RTM</b>	PB-VX3-001	VX3230 VPX Rear Transition Module with onboard I/O
<b>USB Flash Disk</b>	FDM-USB-xx	USB Flash Disk Module (please contact Kontron for the available capacity)

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#VX3230# 04142010R1M  
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