ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

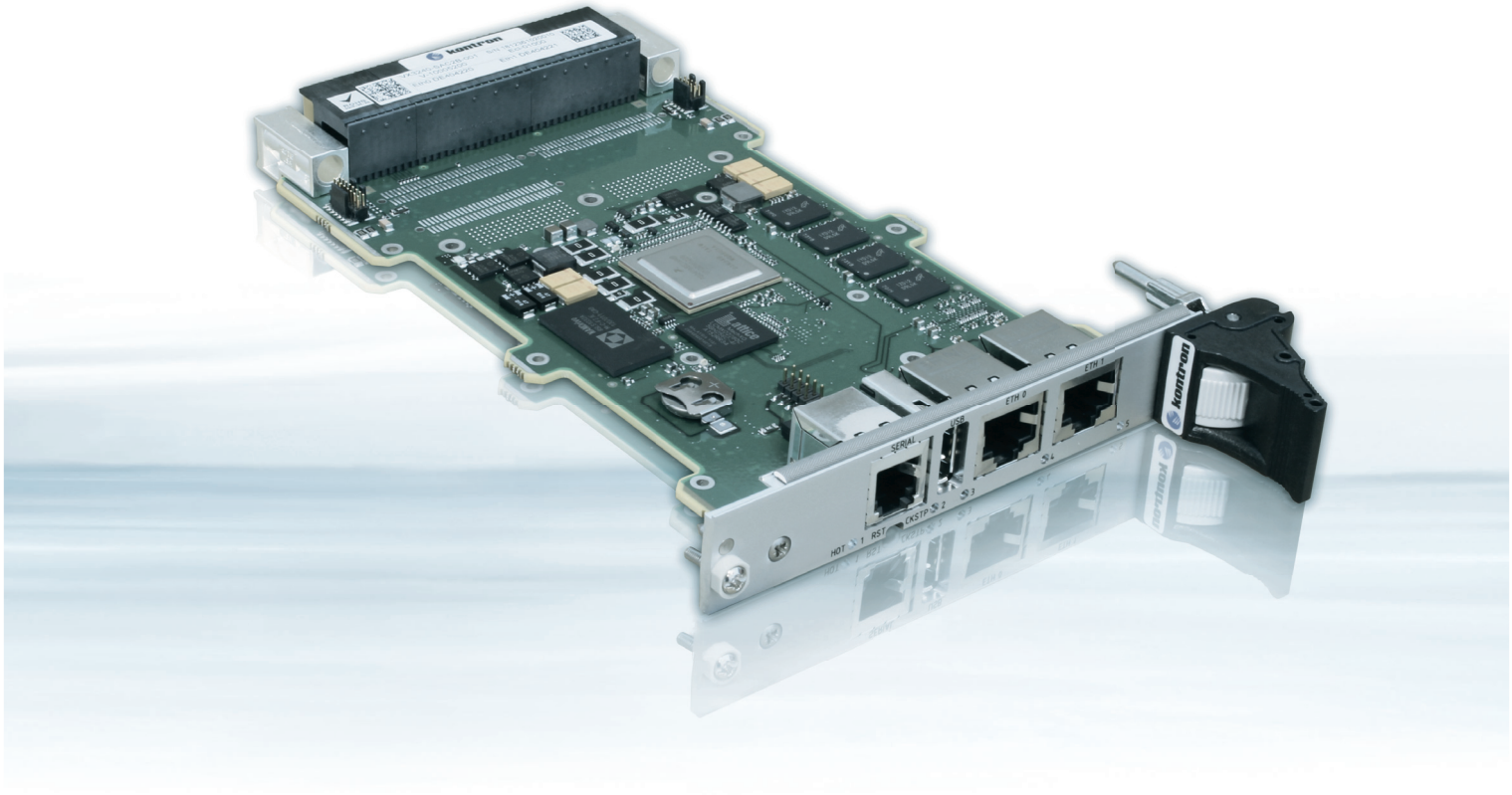
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Kontron VX3240* at our website: ***Click HERE***

VX3240



3U VPX FREESCALE QORIQ™ P2041 SINGLE BOARD COMPUTER

- general purpose 3U VPX SBC
- 1.2 GHz Freescale QorIQ™ P2041 processor, soldered DDR3 SDRAM
- PCIe (4x), SATA, gigabit ethernet on the VPX backplane
- support for PMC or XMC mezzanines
- standard air- and rugged conduction-cooled versions

POSSIBILITIES START HERE kontron

PRODUCT OVERVIEW

VX3240 is a low-power 3U VPX SBC featuring a quad-core Freescale P2041 QorIQ™ device with quad PowerPC e500mc cores at 1.2 GHz. VX3240 supports up to 8 GByte DDR-3 SDRAM and provides a wide range of I/Os including Gigabit Ethernet, GPIOs, PMC/XMC I/Os, USB, SATA and serial ports. With such a feature set, VX3240 is the ideal general purpose solution for SWaP-C constrained embedded applications. Coupled with Kontron Long Term Supply policy, VX3240 is the perfect migration path to a new 10+ year period of deployments for PowerPC-based applications in the Military, Aerospace and Transportation markets.

TARGET APPLICATIONS

Console and Rugged Servers

In today's network-centric battlefield, console and high-end servers applications require rugged computers to operate in the most difficult environments. Kontron VX3240 is designed around a high-end Quad Core CPU. Providing up to 8 GByte DDR3-SDRAM, multiple Ethernet and an XMC support, the VX3240 offers numerous configuration variants.

STANDARDS

- 3U VPX VITA 46, OpenVPX VITA 65, VPX REDI VITA 48.
- Single CPU: compatible with all existing legacy application PowerPC codes.

SWAP-C

Four Execution Threads: compact 4-way SMP solution for parallel computing tasks at low power, low size.

SAFETY CRITICAL

- One channel of DDR3 soldered memory with ECC.
- 1 Mbit of permanent Ferroelectric Random Access Memory (F-RAM) allowing permanent retention of application key operational data.
- 128 MByte of System Flash with Recovery Firmware Image and permanent storage of parameters.

CONNECTIVITY

- 4 lanes of gen2 PCIe to the backplane: I/O extensions at peak bandwith.
- One XMC site with x4 PCIe interface.

VERSATILITY

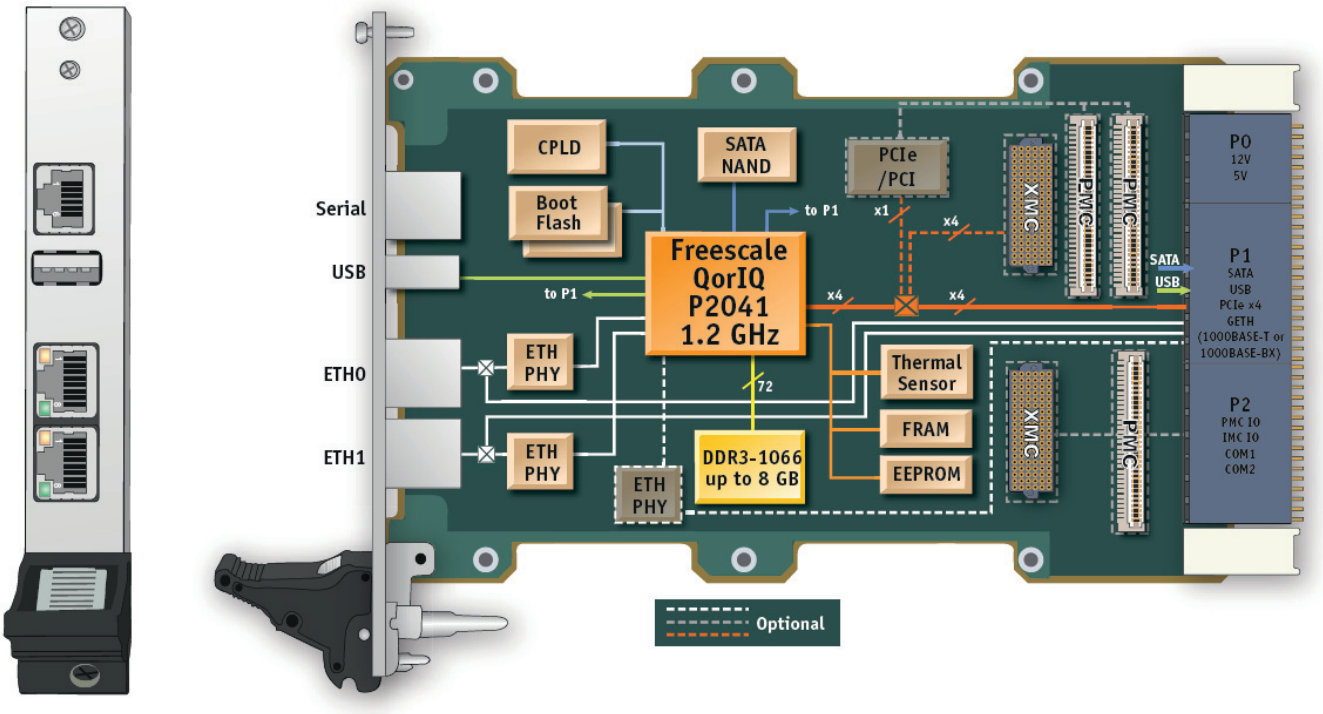
VX3240 is available in Standard Air- (SA) and Rugged Conduction-cooled (RC) versions.

COMPATIBILITY: CERTIFIED SOLUTION

VX3240 is compatible with all Kontron VPX building blocks (Payload boards, carriers, switches, backplanes, OS and drivers) and offer backward compatibility with the previous product generations (VX3230 SBCs).

LONG TERM SUPPLY (LTS)

The VX3240 SBC is part of the Kontron Extended Life Cycle product family, which offers a +10 year life cycle organization on top of Freescale product longevity program. Available in Kontron 3U VPX development systems, along with 3U VPX carriers and 3U VPX Ethernet plus PCIe switches, the VX3240 is the ideal candidate for long term programs in search of general purpose solutions.



TECHNICAL INFORMATION

SYSTEM PROCESSOR	Freescale QorIQ™ P2041 operating at 1.2 GHz 4x e500mc cores based on Power Architecture technology 32 KByte L1-I cache and 32 KByte L1-D cache per core 128 KByte L2 cache per core 1 MByte CoreNet™ platform cache with ECC 64-bit DDR3/3L Memory Controller with ECC
SYSTEM MEMORY	Up to 8 GByte of DDR3 SDRAM running at 1066 MHz, with ECC, soldered 128 MByte FLASH, with recovery image One 512 Kbits FRAM One 256 Kbits serial EEPROM dedicated to system data One 256 Kbits serial EEPROM dedicated to application data Up to 32 GByte SATA Nand Flash storage
ONBOARD CONTROLLER	Board controller for power sequencing, reset handling, monitoring and failure detection. Provides configuration/status registers on Local Bus interface Separated low port RTC with optional onboard battery
FRONT PANEL INTERFACES	One USB 2.0 port on 4-pin standard USB connector Two 1000BASE-T ports on RJ-45 connectors One RJ-12 connector for EIA-232/EIA-485 simplified UART interface (with RTS/CTS) Three LEDs reporting the board CPU health status and activity Reset push button
SLOT PROFILES	SLT3-PAY-2F2U-14.2.3, SLT3-PAY-2F2T-14.2.5, SLT3-PAY-2F-14.2.7, SLT3-PAY-1F1U-14.2.10
REAR I/O VIA P0/P1/P2	One x4 PCIe port on P1 One SATA II port on P1 Two Gigabit Ethernet ports (1000BASE-T or 1000BASE-BX) on P1 One USB 2.0 port on P1 Two simplified EIA-232/EIA-485 interfaces on P2 (with RTS/CTS) 3 User GPIOs on P1, including OpenVPX GDISCRETE1 and MASKABLE RESET, and 3 additional GPIOs on P0 PMC I/Os on P2 XMC I/Os on P2
ONBOARD INTERFACES	COP interface for CPU debugging 4x PCIe XMC slot PCI 32 bits 33 MHz PMC slot
POWER SUPPLIES	On P0: - VS1=12 V, VS3=5 V, 3.3 V_AUX optional, - +12 V_AUX and VS2 (3.3 V) not connected
POWER CONSUMPTION	Lower than 25 W typ.

ENVIRONMENTAL SPECIFICATION

	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 CC
COOLING METHOD	Convection	Conduction
OPERATING	0° to +55° C	-40° to +85° C
STORAGE	-45° to +85° C	-45° to +100° C
VIBRATION SINE (OPERATING)	20-500 Hz - 2 g	22-2,000 Hz - 2 g
RANDOM	VITA 47-Class V1	VITA 47-Class V3
SHOCK (OPERATING)	20g/11 ms Half Sine	40g/11 ms Half Sine
ALTITUDE (OPERATING)	-1,500 to 60,000 ft	-1,500 to 60,000 ft
RELATIVE HUMIDITY	90 % without condensation	95 % without condensation

ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
VX3240	VX3240-SAC2-00000	VX3240 Air-Cooled Commercial Build, QorIQ P2041 1.2 GHz, 2 GByte DDR3-SDRAM, no Sata Flash (MLC) on board, no XMC/PMC slot, 1000BASE-T Ethernet interfaces
VX3240	VX3240-SAC2-00001	VX3240 Air-Cooled Commercial Build, QorIQ P2041 1.2 GHz, 2 GByte DDR3-SDRAM, no Sata Flash (MLC) on board, no XMC/PMC slot, 1000BASE-BX Ethernet interfaces - **Availability: on demand**
VX3240	VX3240-SAC2-00000	VX3240 Air-Cooled Commercial Build, QorIQ P2041 1.2 GHz, 2 GByte DDR3-SDRAM, no Sata Flash (MLC) on board, XMC/PMC slot with PMC I/Os, 1000BASE-T Ethernet interfaces - **Availability: on demand**

CORPORATE OFFICES

EUROPE, MIDDLE EAST & AFRICA

Lise-Meitner-Str. 3-5
86156 Augsburg
Germany
Tel.: + 49 821 4086 0
Fax: + 49 821 4086 111
info@kontron.com

NORTH AMERICA

14118 Stowe Drive
Poway, CA 92064-7147
USA
Tel.: + 1 888 294 4558
Fax: + 1 858 677 0898
info@us.kontron.com

ASIA PACIFIC

1~2F, 10 Building, No. 8 Liangshuihe 2nd Street,
Economical & Technological Development Zone,
Beijing, 100176, P.R.China
Tel.: +86 10 63751188
Fax: +86 10 83682438
info@kontron.cn

Copyright © 2015 Kontron AG. All rights reserved. All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Kontron and the Kontron logo and all other trademarks or registered trademarks are the property of their respective owners and are recognized. Specifications are subject to change without notice. VX3240-20151119 - WMH

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP