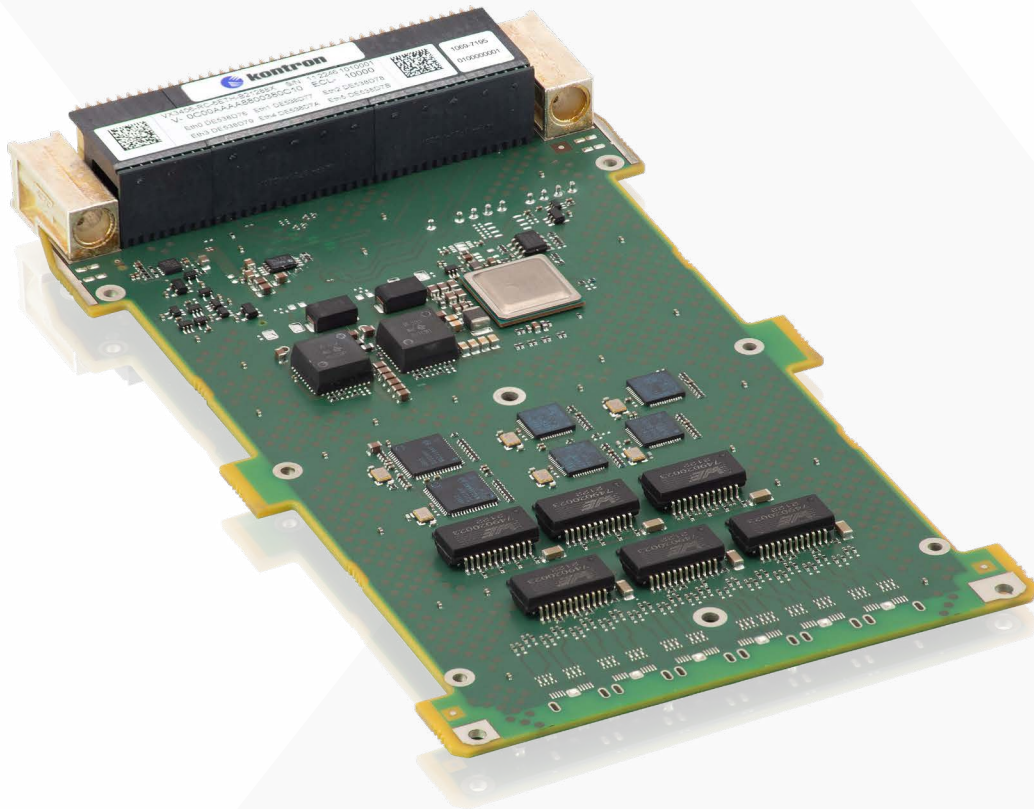




Six ports 1G/2.5G Ethernet 3U VPX Card

- › Six independent Ethernet controllers
- › Four 1G/2.5G i225 controllers supporting TSN/IEEE1388 PTP
- › Robust, High EMC resistance IEC 61076 standard Harting six front connectors
- › Low power consumption and High network capabilities
- › Rugged Conduction-cooled version available, Air-cooled on request

Six 1G/2.5G Ethernet ports 3U VPX Card

Kontron's VX3406 is a game-changer in network expansion. Designed for demanding applications, this cutting-edge module delivers unparalleled connectivity, flexibility, and reliability, ensuring seamless integration into high-performance systems. With four independent 1G/2.5G ports and two dedicated 1G copper ports, the VX3406 significantly boosts networking capabilities, making it the perfect solution for data-intensive, real-time, and mission-critical operations.

In its air-cooled version, the front Ethernet connectors comply with the IEC 'IX' industrial standard, featuring a secure locking mechanism, enhanced durability, and superior EMC resistance—a must-have for environments where reliability is non-negotiable.

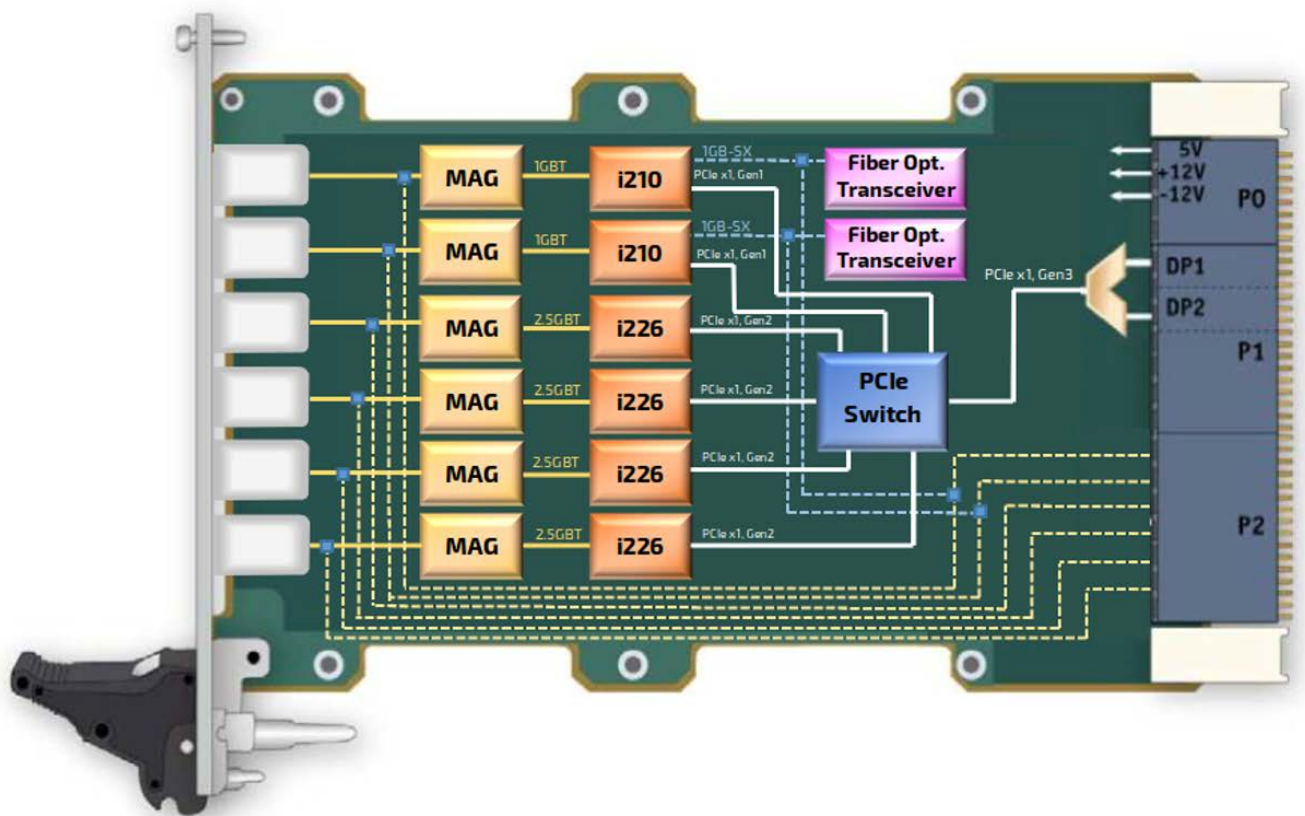
At its core, the VX3406 integrates a powerful 8-port, 8-lane PCIe Gen3 switch, offering unmatched versatility. Users can leverage up to four Intel i225 controllers, fully supporting TSN/IEEE1388

PTP for precise time synchronization, along with up to two Intel i210 Ethernet controllers, enabling a total of six concurrent 1000BASE-T ports.

Built to withstand harsh conditions, the rugged conduction-cooled design makes the VX3406 the ideal networking solution for extreme environments, including defense, aerospace, and transportation applications.

For even greater flexibility, the VX3406 comes with an optional Rear Transition Module (RTM), which consolidates all six Ethernet links onto six different IX connectors. This streamlined approach simplifies development and maintenance, particularly in conduction-cooled environments, by providing easy access to networking interfaces without requiring direct front-panel connections. This not only enhances system integration but also reduces complexity during testing, deployment, and long-term servicing.

Block Diagram



ONBOARD FEATURES	BOARD MANAGEMENT NON-VOLATILE MEMORIES	NON TRANSPARENT PCIE BRIDGE VPD EEPROM
FRONT PANEL (OPTIONAL)	IOS	Up to six 1000BASE-T ports on IX Industrial connectors
BACKPLANE	Expansion Plane Control Planes User Defined IOS	x1 PCIe Gen3 Not connected Six 1000BASE-T ports
STANDARD PROFILE	Slot Profile Module Profile	SLT3-PAY-2U2U-14.2.17 MOD3-PAY-2U2U-16.2.16
AVAILABILITY	Up to 10 years	

Environmental Specification

	SA- STANDARD AIR COOLED	RC - RUGGED CONDUCTION-COOLED COMPLIANT WITH TYPE 1 PLUG-IN UNIT 2 LEVEL MAINTENANCE AS PER VITA48.0 AND VITA48.2 STANDARDS
CONFORMAL COATING	Optional	Standard
AIRFLOW	tbd	n.a.
COOLING METHOD	Convection	Conduction
OPERATING TEMPERATURE	0 °C to +55 °C	-40 °C to +70 °C
STORAGE TEMPERATURE	-40 °C to +85 °C	-50 °C to +100 °C
VIBRATION SINE (OPERATING)	20-2000 Hz - 2 g	20-2000 Hz - 5 g
RANDOM	VITA 47-Class V1	VITA 47-Class V3
SHOCK (OPERATING)	20 g/11 ms Half Sine	40 g/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
VX3406-RC3-0000	1075-1976	3U VPX -Conduction-Cooled 'RC3' (-40°C to +70°C) conformal coating No Front panel connectors - Six 1000BASE-T ports on VPX P2 connector No 2LM covers
PB-VX3-ETH6-000	1069-9884	3U single slot 5 HP (1.0") VPX Rear Transition Module providing six 1000Base-T Ethernet links. Tooling equipment for lab use.

Contact us for other variants or form factor.

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