



Dual 10 Gigabit Ethernet Switched Mezzanine Card

- Outstanding performance & CPU offload
- Flexibility for fiber & direct attached copper

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Designed for operation in latest high speed networks, the XMC403 provides 2x 10GbE data throughput at full speed.

In addition to the great processing performance on Kontron's CPU side, the next generation 10 Gigabit Switched Mezzanine Card (XMC) provides sufficient data throughput for today's Ethernet networks. Two 10GbE ports attached by PCIe x8 to the host computer, combined with new capabilities and enhancement of the Intel® 10 Gigabit Ethernet controller, helps unshackle processors from their predecessor's network I/O handcuffs and

unleashes blazing performance in a variety of usage models. Supporting latest Intel VT technologies, Kontron provides the platform foundation for virtualization and storage over Ethernet usages and provides new opportunities to more efficiently utilize network links. Offering the possibility of either one or two channels as well as the support of copper and/or optical transmission, the XMC403 allows a maximum flexibility. Furthermore, it supports intelligent behaviour through the auto detection feature of copper network configurations.

Technical Information

ETHERNET CONTROLLER	Intel® X710-BM2
ETHERNET INTERFACE	Two 10 Gbit small form factor pluggable (SFP+) interfaces
HOST INTERFACE	XMC PCI Express® Gen 3.0 x8 interface
STATUS LED	4 LEDs for Link activity, 1/10 Gb speed
FLASH MEMORY	8 Mbit serial flash device for BOOT ROMs
SERIAL EEPROM	2 kbit serial EEPROM for IPMI FRU data
POWER CONSUMPTION	7.5 Watt typical
GENERAL	According VITA42.0/3/6 IEEE 1386.1-2001 Dimensions: 74 W x 149 D mm, single XMC card Weight: 100 g MTBF: 929999 h MIL-HDBK-217 FN2 Ground Benign 30°
ENVIRONMENTAL	Operating temp.: 0 °C to +50 °C Storage temp.: -55 °C to +85 °C Operating humidity: 93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78) Operating altitude: 4000 m (13123 ft) above sea level Passive heat sink, forced system air flow
COMPLIANCY	Designed to meet or exceed Vibration: EN60068-2-6 10..300Hz 2g Shock: EN60068-2-27 30g 9ms half sine EMC: EN55032 class.B / EN55022 Safety: EN 62368-1
SOFTWARE SUPPORT	Linux Debian Windows 10/11 IoT Enterprise LTSC Windows Server 2022

ARTICLE	PART NO.	DESCRIPTION
XMC403	1074-3029	Dual 10GbE XMC, dual SFP+ cages
XMC403-C	1074-4457	Dual 10GbE XMC, dual SFP+ cages, coating

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