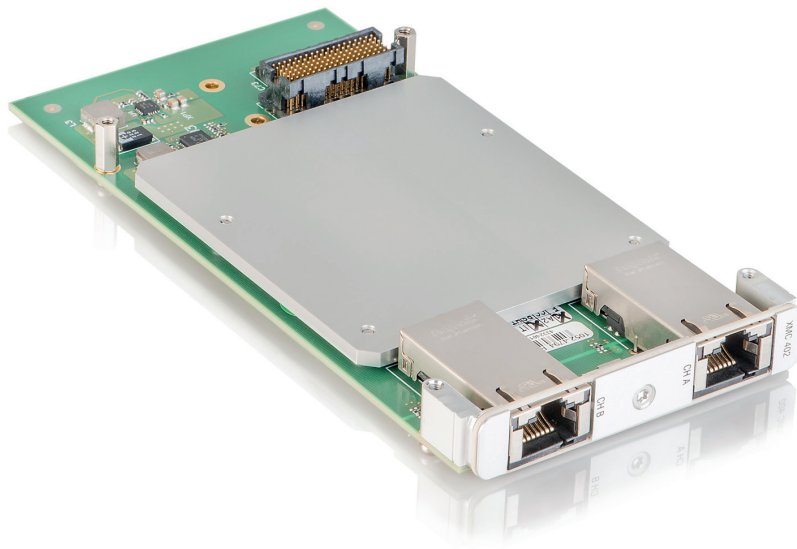


# » XMC402 «



## Dual 10 Gigabit Ethernet Switched Mezzanine Card

- » **Outstanding Performance & CPU Offload**

  - Intel® X540 Dual 10GbE Controller

- » **Flexibility**

  - PCIExpress® x8 Host & RJ45 10GBASE-T Ethernet Interface (Copper)

- » **Cost Effective**

  - Highly Integrated Single Chip Solution

## XMC402

### Dual 10 Gigabit Ethernet Switched Mezzanine Card

Designed for operation in high speed networks, the XMC402 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® X540 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 (CAT6A) transmission, the XMC402 allows a maximum flexibility. Furthermore, it supports intelligent behaviour through the auto detection feature of copper network configurations.

#### Technical Information

<b>Ethernet Controller</b>	Intel® X540
<b>Ethernet Interface</b>	Two 10 Gbit RJ45 copper interfaces (10GBASE-T)
<b>Host Interface</b>	XMC PCI Express™ Gen 2.0 x8 interface
<b>Status LED</b>	8 LEDs for Link activity, Link-up, 1/10 Gb speed
<b>Flash Memory</b>	8 Mbit serial flash device for BOOT ROMs
<b>Serial EEPROM</b>	128kbit serial EEPROM for configuration data 2 kbit serial EEPROM for IPMI FRU data
<b>Power Consumption</b>	7,5 Watt typical
<b>General</b>	According VITA42.0/3/6 IEEE 1386.1-2001 Dimensions : 74 W x 149 D mm, single XMC card Weight : 100gr
<b>MTBF</b>	1181332 h MIL-HDBK-217 FN2 Ground Benign 30° 1133166 h Bellcore Issue 6 Ground Benign 30°
<b>Environmental</b>	Operating temp.: 0°C to +55°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
<b>Compliance</b>	Designed to meet or exceed Vibration: DIN/IEC 60068-2-6 Shock: DIN/IEC 60068-2-27 EMC: EN55022 class.B / EN55024 Safety: EN60950-1
<b>Software Support</b>	Linux, Windows, VxWorks Other Drivers on request

#### Ordering Information

Article	Description
<a href="#">XMC402</a>	Dual 10G Base-T eXtended Mezzanine Card
<a href="#">KIT XMC402</a>	Documentation and Windows Driver Software, available on Web
<a href="#">LIN BSP XMC402</a>	Documentation and Linux Driver Software, available on Web
<a href="#">VXW BSP XMC402</a>	Documentation and VxWorks Driver Software, available on Web

#### CORPORATE OFFICES

##### Europe, Middle East & Africa

Lise-Meitner-Str. 3-5  
86156 Augsburg  
Germany  
Tel.: +49 (0) 821 4086-0  
Fax: +49 (0) 821 4086 111  
sales@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

17 Building, Block #1, ABP.  
188 Southern West 4th Ring Road  
Beijing 100070, P.R.China  
Tel.: +86 10 63751188  
Fax: +86 10 83682438  
info@kontron.cn