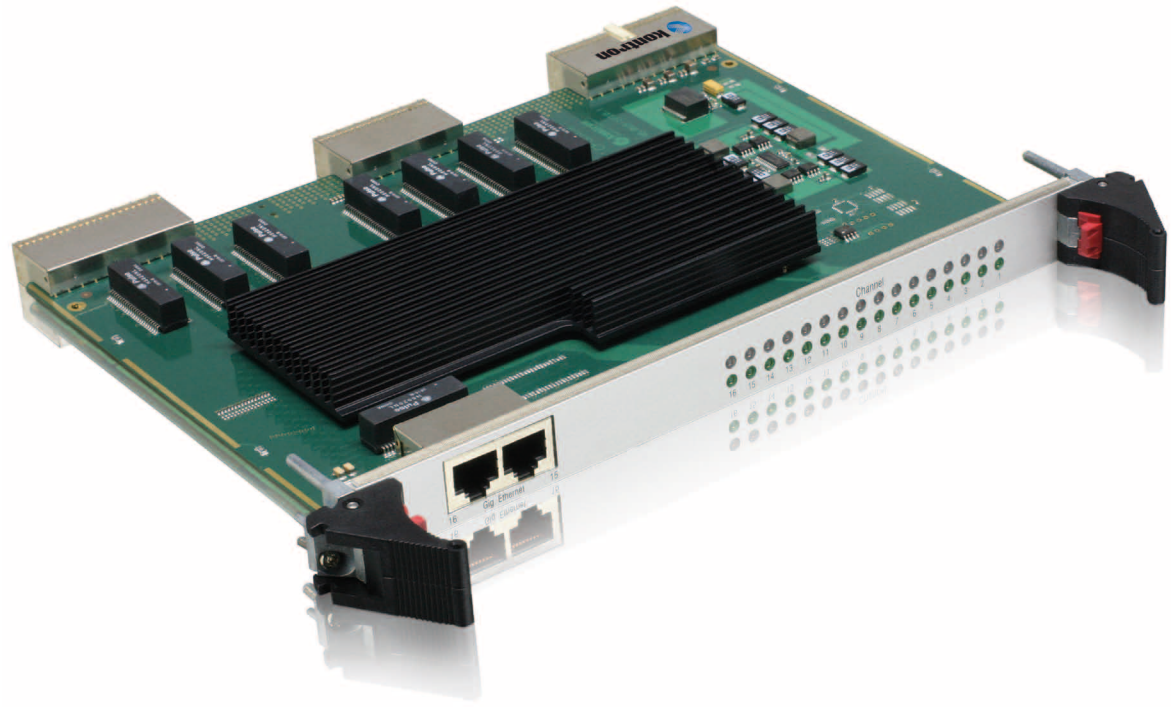
» CP6925 «



16 Port Gigabit Ethernet Switch

» Cost optimized unmanaged solution

» 14x Port Gigabit to Rear + 2x Port Gigabit to Front

» Auto-negation

» Three speed operations: 10/100/1000 Mbit/s

The CP6925 is a cost-effective 16 port 6U single-slot CompactPCI Gigabit Ethernet Switch. Based on a highly integrated Ethernet Switch the board is designed for operation in industrial automation applications.

The Kontron CP6925 unmanaged switch provides 14x Gigabit Ethernet ports at the rear of the J3 and J5 CompactPCI connector as well as 2x Gigabit Ethernet uplink ports to the front. Features such as auto negotiation and full duplex communication recommends the CP6925 itself as a highly flexible and configurable Ethernetswitch making the board ideal for the implementation of structured networ segments.

On the CP6925 the Broadcom BCM5396 Gigabit Ethernet Switch is used. This device is a highly integrated solution. It combines all the functions of a high-speed switch system, including packet buffer, media access controllers, address management, and a nonblocking switch fabric. It complies with IEEE802.3, 802.3U, 802.3ab, and 802.3x specifications, including the MAC control, pause frame and auto negotiation subsections, providing compatibility with all industry-standard Ethernet, Fast Ethernet and Gigabit Ethernet devices.

The CP6925 can be used in applications where several CPU boards are configured into segments in a 19-inch rack system or where a central processor system supervises several distributed controllers. Providing ports to the J3 and J5 CompactPCI connectors allows the board to be used in PICMG 2.16 applications. Supporting non-PICMG 2.16 systems as well, these ports can be routed to an appropriate rear transition module to enable rear access.

Technical Information

Compliancy	CompactPCI Core Specification PICMG 2.0 Rev. 3.0 CompactPCI Packet Switching Backplane PICMG 2.16 R1.0
Controller	
Broadcom BCM5396:	Ethernet Switch with integrated SerDes/SGMII interfacing, operates in unmanaged mode, layer 2
Combined w. 4x Broadcom BMC5464:	Four quad-channel Gigabit Ethernet transceivers
Transfer rate:	10/100/1000 Mbit/s with auto-negotiation
SRAM on chip:	256 kByte for frame buffering
MAC adresses:	Up to 4k unicast MAC adresses
General	
Number of Ports:	16x 10/100/1000Base TX
Rear panel ports:	14x via J3 and J5 CompactPCI connector compliant to PICMG 2.16
Front panel connector:	2x RJ45 for CAT5 cable
Front panel LED's:	Link/activity and speed for all 16 ports
Power connector:	via J1 CompactPCI connector (5 Volt only)
Dimensions:	233 mm x 160 mm (6U card size)
Temperature Ranges:	0 C to + 55 C (standard) -55 C to +100 C (storage)
Power:	max. 21 Watt
MTBF:	594283h acc. Bellcore Issue 6 Ground Benign 30° 393317h acc. MIL-HDBK-217-FN2 Ground Benign 30°

Ordering Information

Article	Part.-No.	Description
CP6925	34027	16x Gigabit Ethernet ports, 14x ports to the rear and 2x RJ45 ports

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