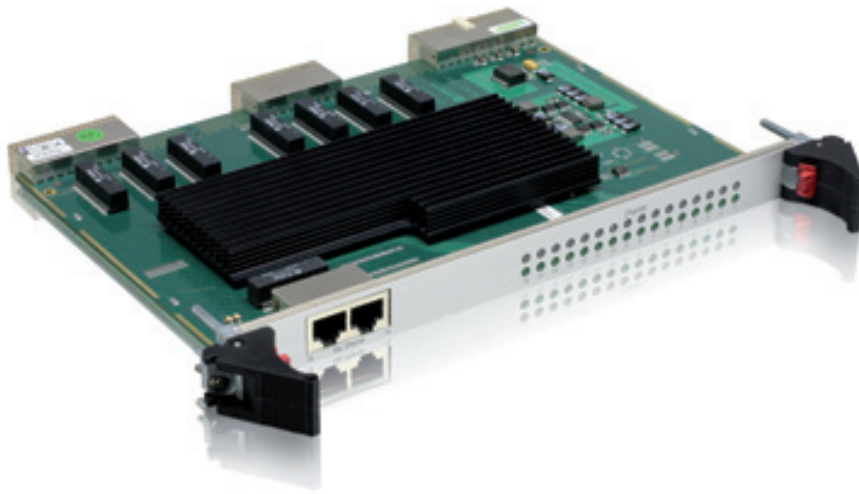


» CP6925 «



16 Port Gigabit Ethernet Switch

- » Cost optimized unmanaged solution
- » 14x Port Gigabit to Rear + 2x Port Gigabit to Front
- » Auto-negotiation
- » 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 Ethernet switch making the board ideal for the implementation of structured network 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

Compliance

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 addresses

Up to 4k unicast MAC addresses

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 x 160 mm (6U card size)

Temperature Ranges

0°C to +55°C (standard)
-20°C to +60°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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