CP342

Dual Independent Gigabit Ethernet Adaptor for CompactPCI Applications

- ➤ Latest Intel technology with 82546GB
- ➤ Dual Gigabit Ethernet with RJ45 Copper or SFP Fiber,
- ➤ PXE boot, Fault tolerant and Teaming capable
- ➤ Ethernet IEEE 802.3x compliant
- ➤ Running on Windows, Linux, VxWorks

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➤ Product Overview

CP342 is a Dual Gigagbit Ethernet controller board, based around Intel 82546GB chip, designed for operation in CompactPCI systems offering versatile connectivity to your application either on copper with RJ45 or Rear I/O or on Fiber with SFP.

The optional flash device provides CP342 with the ability to boot remotely via PXE-boot from another system's OS over the connected network. The used controller supports Jumbo frames with up to 16KB for large data transfers and high throughput. IP, TCP and UDP checksum off-loading capabilities increase the throughput even more and lowers CPU utilization.
The CP342 is capable of adapter teaming using the apropriate driver software.

General

Number of ports:	2 ports with Gigabit Ethernet NIC
Form Factor:	3U CPCI, 100 x 160mm, front panel 4HP
Connection;	
CP342;	2x RJ45
CP342-SFP;	2x SFP
CP342-RIO	2x RJ45 on RIO Module

Characteristics

Controller:	Intel 82546GB Ethernet controller
Data Rate:	10/100/1000 Mbit/s
Ethernet:	Full IEEE802.3x ompliance supporting 10Base-T, 100Base-TX, 1000Base-TX and 1000Base-FX operation
VLAN support	IEEE 802.1Q VLAN support, 4096 VLAN tags
CPCI Bus:	32 bit, 33/66MHz, DMA bus master, VI/O; 3.3Volt or 5Volt with Rear I/O.
Power Consumption:	5,6W (typ)@3.3Volt

Software Support

Drivers:	Windows, Linux, VxWorks
Applications:	Remote node management with PXE Boot

Common

Temp. Ranges:	0°C to +60°C (standard) (tbd) for extended temperature range
Oper.Humidity:	IEC60068-2-78, 93% at 40°C, non-condensing
Weight:	140g

➤ Ordering Information

Product	Description	Order No.
CP342	Dual Gigabit Ethernet NIC on 3U CompactPCI with 2x RJ45 to the front panel	33328
CP342-SFP	Dual Gigabit Ethernet NIC on 3U CompactPCI with 2x SFP to the front panel	33329
CP342-RIO	Dual Gigabit Ethernet NIC on 3U CompactPCI with Rear I/O support	33330
CP-RIO3-42	Rear I/O module for CP342-RIO with 2x RJ45 to the frontpanel. 3U / 4HP	34828
Kit-CP342	Documentation and Windows driver kit on CD²	tbd
LIN-DRV-CP342	Linux driver for CP342	tbd
	2) KIT-CP342 free of charge downloadable from the Internet	

➤ Corporate Offices

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If it's embedded, it's Kontron!