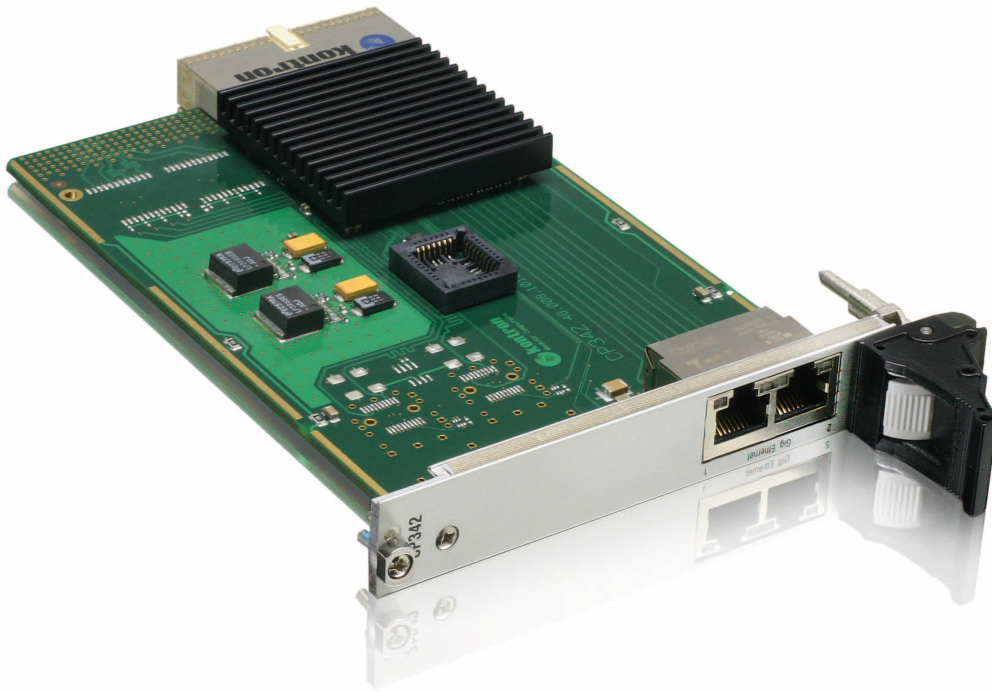


# » CP342 «



## 3U CompactPCI Dual Gigabit Ethernet Adapter

- » Dual Gigabit Ethernet via RJ45 Copper or SFP Fiber
- » PXE Boot option, Adapter Teaming
- » Ethernet IEEE 802.3x compliant
- » Running on Windows, Linux, VxWorks

# CP342

## 3U CompactPCI Dual Gigabit Ethernet Adapter

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

The optional flash device provides the ability to boot remotely via PXE from a different operating system via the connected network. The Intel® 82546 Gigabit 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. Furthermore the CP342 provides adapter teaming capabilities by using the appropriate driver software.

### Technical Information

#### General

Number of Ports	2 ports with Gigabit Ethernet
Form Factor	3U CPCI, 100 x 160mm, Frontpanel 4 HP
Connection	CP342 2x RJ45 CP342-E2 2x RJ45 CP342-SFP 2x SFP CP342-RIO RJ45 via Rear I/O

Weight	140g
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#### Characteristics

Controller	Intel® 82546GB Ethernet controller
Data Rate	10/100/1000 Mbit/s (only 1000 Mbit/s for SFP) Full IEEE 802.3 x compliance
Ethernet	10Base-T, 100Base-TX, 1000Base-TX and 1000Base-FX operation
VLAN support	IEEE 802.1Q VLAN support, 4096 VLAN tags

#### Software Support

Drivers	Windows®, Linux®, VxWorks® driver packages Windows® driver package with Adapter Teaming providing: <ul style="list-style-type: none"> <li>» Adapter Fault Tolerance</li> <li>» Adaptive Load Balancing</li> <li>» Static Link Aggregation</li> <li>» IEEE 802.3ad Dynamic Link Aggregation</li> <li>» Switch Fault Tolerance</li> </ul>
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#### CompactPCI Bus Interface

» PICMG 2.0 Rev 3.0 compatible, 32 bit/33 MHz, DMA bus master
» V/I/O: universal (3.3V/5V)
» Version with Rear I/O on J2

Power Consumption	5.6 W (typ.) @ 3.3 V
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#### Environmental

Operating Temp.	0°C to +60°C, -40°C to +85°C with E2 version
Climatic Humidity	non condensing 93% at 40 °C (acc. to IEC60068-2-78)

### Ordering Information

Article	Order-No.	Description
<b>CP342</b>	33328	Dual Gigabit Ethernet NIC on 3U CompactPCI with 2x RJ45 to the front panel
<b>CP342-SFP</b>	33329	Dual Gigabit Ethernet NIC on 3U CompactPCI with 2x SFP to the front panel
<b>CP342-RIO</b>	33330	Dual Gigabit Ethernet NIC on 3U CompactPCI with Rear I/O support
<b>CP342-E2</b>	35150	Dual Gigabit Ethernet NIC with 2x RJ45, for usage in E2 (-40°C to +85°C) temp. range
<b>CP-RIO3-42</b>	34828	Rear I/O module for CP342-RIO with 2x RJ45
<b>KIT-CP342</b> <sup>1)</sup>	35118	Windows® 2000 and XP Board Support Package, CP342 User's Manual
<b>VXW-DRV-CP342</b>	35205	VxWorks® 6.4 Board Support Package, CP342 User's Manual
<b>WXPE-BSP-CP342</b> <sup>1)</sup>	1022-2328	Windows® XP embedded Board Support Package, CP342 User's Manual

<sup>1)</sup> Free of charge downloadable from the Web

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