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
- **Data Rate**: 10/100/1000 Mbit/s (only 1000 Mbit/s for SFP)
- **Ethernet**: Full IEEE 802.3 x compliance
- **VLAN support**: IEEE 802.1Q VLAN support, 4096 VLAN tags
- **Weight**: 140g

**Characteristics**
- **Controller**: Intel® 82546GB Ethernet controller
- **Data Rate**: 10/100/1000 Mbit/s (only 1000 Mbit/s for SFP)
- **Ethernet**: Full IEEE 802.3 x compliance
- **VLAN support**: IEEE 802.1Q VLAN support, 4096 VLAN tags

**Drivers**
- Windows®, Linux®, VxWorks® driver packages
- Windows® driver package with Adapter Teaming providing:
  - Adapter Fault Tolerance
  - Adaptive Load Balancing
  - Static Link Aggregation
  - IEEE 802.3ad Dynamic Link Aggregation
  - Switch Fault Tolerance

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

**Power Consumption**
- 5.6 W (typ.) @ 3.3 V

**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

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<td>33328</td>
<td>Dual Gigabit Ethernet NIC on 3U CompactPCI with 2x RJ45 to the front panel</td>
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<td>CP342-SFP</td>
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<td>CP342-RIO</td>
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<td>CP-RIO3-42</td>
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<td>Rear I/O module for CP342-RIO with 2x RJ45</td>
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1) Free of charge downloadable from the Web

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