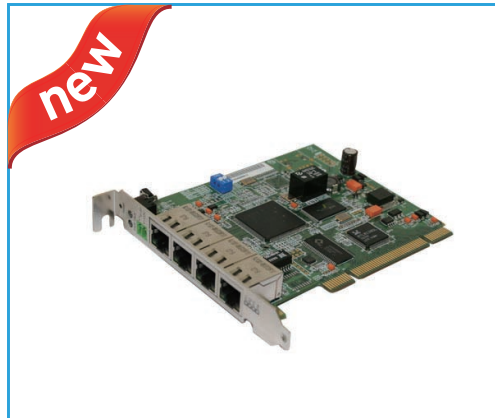


EN304 Series

Web-Smart Industrial 4-port 10/100BASE-TX PCI Ethernet Switch Card



Overview



The EN304 series PCI Ethernet switch adaptor comes with four 10/100BASE-TX RJ-45 ports that complied with PCI bus specifications, rev 2.2. The EN304 supports Rapid Spanning Tree and Fast Recovery Ring for redundancy. Users may choose the bundle Windows utility for configuration. EtherWAN offers a line of products that provide a total solution for Ethernet applications in Central control environments.

EN304 can be an upgraded tool for current IPC system. It also provides one external power 9-30 VDC power input to prevent the accidentally shut down for main system.

Features

- ▶ PCI 2.2 Specification compliant
- ▶ EtherWAN provide Fast-Recovering support for network redundancy
- ▶ IEEE802.1w RSTP, IEEE802.1D STP and IEEE 802.1AB for LLDP (Link Layer Discovery Protocol) compatible
- ▶ 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ Full wire-speed forwarding rate
- ▶ Redundant DC power inputs with 9-30 VDC
- ▶ -10°C to 60°C (14°F to 140°F) operating temperature range

Ordering Information

EN304 4-port 10/100BASE-TX Fast Ethernet Lite-Managed PCI Ethernet Switch Card

Power Supply: (Optional)

*Options A - Terminal Block power supply(s), part numbers: DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X X=1,2,3,4,5

*See page 5-8 to 5-15 for more detailed information about optional accessories (Din-Rail Power supply, Power adapter)

Specifications

Technology

Standards:

- IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x, IEEE802.1w, IEEE802.1D and IEEE 802.1AB

Forward and Filtering Rate:

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory:

- 1M bits

Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size:

- 2048 MAC addresses

Power

Input:

- Input Voltage: 3.3V through PCI Bus; 9 to 30VDC (Terminal Block)

Power Consumption:

- 3.6W Max, 1.5A@24VDC

Mechanical

Dimensions:

- 124mm (W) x 100mm (D)
(4.88" (W) x 3.94" (D))

Weight:

- 100g (0.22lbs.)

Interface

Ethernet Port:

- 10/100BASE-TX: 4 ports

LED Indicators:

- Per Unit: Power Status
- Per Port: 10/100TX, 100FX: Link/Activity
- Ring indicator
- Fault

Environment

Operating Temperature:

- 10°C to 60°C (14°F to 140°F)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

Regulatory Approvals:

ISO:

- Manufactured in an ISO9001 facility.

EMI:

- FCC Part 15, Class A
- EN61000-6-4
 - EN55022
 - EN61000-3-2
 - EN61000-3-3

EMS:

- EN61000-6-2
 - EN61000-4-2 (ESD Standards)
Contact: + / - 4KV; Criteria B
Air: + / - 8KV; Criteria B
 - EN61000-4-3 (Radiated RFI Standards)
10V/m, 80 to 1000MHz; 80% AM Criteria A
3V/m, 1400 to 2000MHz; 80% AM Criteria A
1V/m, 2000 to 2700MHz; 80% AM Criteria A
 - EN61000-4-4 (Burst Standards)
Signal Ports: + / - 1KV; Criteria B
D.C. Power Ports: + / - 2KV; Criteria B
 - EN61000-4-5 (Surge Standards)
Signal Ports: + / - 1KV; Line-to-Ground; Criteria B
D.C. Power Ports: + / - 0.5KV; Line-to-Ground; Criteria B
 - EN61000-4-6 (Induced RFI Standards)
Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A
 - EN61000-4-8 (Magnetic Field Standards)
1A/m @ 50, 60Hz; Criteria A
 - EN61000-4-11 ((Voltage Dips)
Voltage Dips : 30% Reduction, 25 Period, Criteria C
Voltage Dips : >95% Reduction, 250 Period, Criteria B
Voltage Interruptions : >95% Reduction, 250 Period, Criteria C

Environmental Test Compliance:

- IEC60068-2-6 Fc (Vibration Resistance)
5g @ 10~150Hz, Displacement (Dp-p) 0.7mm (Operating)
- IEC60068-2-27 Ea (Shock)
50g @ 11ms (Half-Sine Shock Pulse; Operating)
- IEC60068-2-32 Ed (Free Fall)
1M (3.281ft.)

Diagrams

