

JetCard 2205

5-ports 10/100Mbps Fast Ethernet Switch Universal PCI Card



CE FC RoHS

UPCI QoS Win 7 -25~70°C

- Supports 32 bit Universal PCI bus
- 5 10/100TX ports with Auto MDI/MDI-X
- IEEE 802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-Negotiation supported
- QoS supported for packet forwarding precedence
- Supports Windows 7/Vista/NT/2000/2003/XP, Linux 2.4/2.6
- -25~70°C operating temperature for hazardous environment application



Embedded Switch Card

The JetCard 2205 is a flexible and high performance five-port Ethernet switch card in Universal PCI format. The universal PCI bus of JetCard 2205 supports both +3.3V and +5V slots. With the -25~70°C wide operating temperature range, JetCard 2205 is an ideal embedded networking solution for industrial applications.

Unmanaged Ethernet Switch: The JetCard 2205 uses Marvell 88E6065 chip to provide 5 Ethernet ports and each port offers IEEE 802.3 10 Base-T and 100 Base-Tx compliant Ethernet data transmission with auto MDI/MDI-X and auto-negotiation.

Auto MDI/MDI-X: The JetCard automatically determines whether or not it needs to interchange cable sense between pairs so that an external crossover cable is not required. If the JetCard interoperates with a device that cannot automatically correct for crossover, the JetCard makes the necessary adjustment prior to commencing Auto-Negotiation.

Flow control: The JetCard supports back-pressure and pause frame-based flow control schemes to ensure zero packet loss under temporary traffic congestion.

QoS (Quality of Service): QoS for networks is an industry-wide set of standards and mechanisms for ensuring high-quality performance for critical applications. JetCard provides the shared memory-based QoS switch architecture. Packets are directed into one of four traffic class queues based upon Port, IEEE 802.1p, IPv4's TOS or Diff-Serv, or IPv6's Traffic Class.

Ethernet Statistics monitoring: The JetCard has a set of thirty, 32-bit counters to provide a set of Ethernet statistics for frames received on ingress and transmitted on egress. A register interface allows the JetCard to capture, read, or clear the counter values.

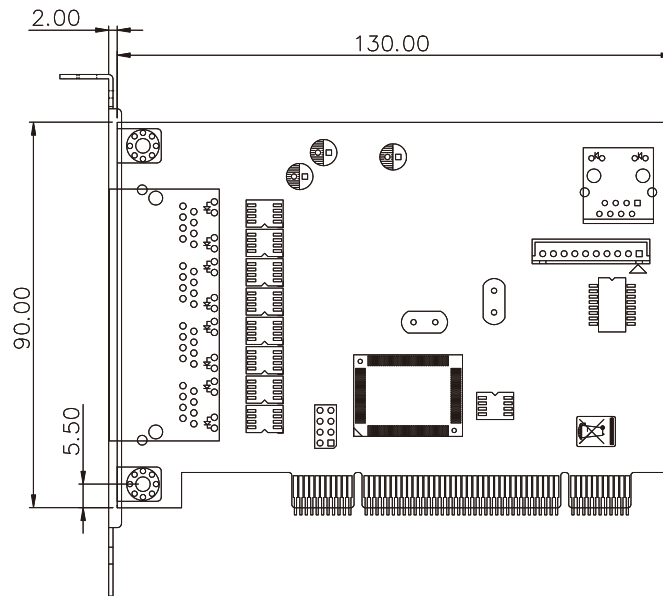
Customized Configurations: JetCard supports an add-on EEPROM for programming its internal registers. The EEPROM data will be read in once the JetCard is reset.

JetCard 2205 usage: Without driver JetCard 2205 works as an unmanaged switch, where users will not see the IP address/Netmask configuration interface and will not be able to communicate with devices, whereas with standard driver built in Windows system the card will work as Network interface card on your PC, allowing users to have an IP address/Netmask configuration interface and communicate the devices with the IPC.



- Industrial Intelligent NMS
- Rackmount PoE Plus Switch
- Industrial PoE Plus Switch
- Industrial 12-24V PoE Switch
- Industrial PoE Switch
- Rackmount L3/L2 Switch
- Gigabit Managed Switch
- Managed Ethernet Switch
- Entry-level Switch
- Wireless Outdoor AP
- Embedded PoE/Router Computer (LINUX)
- Industrial Communication Computer (WIN/LINUX)
- Ethernet/PoE/ Serial Board**
- Ethernet I/O Server
- Media Converter
- Serial Device Server
- SFP Module
- Din Rail Power Supply

Dimensions (Unit = mm)



Specifications

Technology

Standard:

IEEE802.3 10 Base-T
 IEEE802.3u 100 Base-Tx
 IEEE802.3x flow control and Back Pressure
 IEEE802.1p Class of Service

Processing: Store and Forward architecture

Interface

Bus interface: 10/100 Base-Tx RJ45 x5

Number of ports: 4+1 Ethernet ports
 10 Base-T/ 100 Base-Tx with auto MDI/MDI-X
 Auto-negotiation

IRQ: assigned by Universal PCI plug and play

OS supported:

Windows 7/Vista/NT/2000/2003/XP
 Linux 2.4.x/2.6.x

Hardware

Communication controller:

Realtek RTL 8139C+
 Marvell 88E6065

Board connector: RJ45

Cable connection:

10 Base-T: 2-pair UTP/STP Cat. 3,4,5 cable (100m)
 100 Base-Tx: 2-pair UTP/STP Cat. 5 cable (100m)

Dimension: 90 x 130 mm

Performance

Transfer performance: 14,880bps for Ethernet and 148,800bps for Fast Ethernet

Transfer packet size: 64 to 1522bytes

Memory buffer: 512Kbits

MAC address: 1K MAC

Power requirement

Power consumption: 0.95A (+3.3V and +5V)

Environment

Operating Temp: -25 ~ 70°C (-13 ~ 158°F), 5 ~ 95% RH

Storage Temp: -40 ~ 80°C (-40 ~ 176°F), 5 ~ 95% RH

Regulation: CE, FCC

Warranty: 5 years

Ordering Information

JetCard 2205 5-port 10/100Mbps Fast Ethernet Switch Universal PCI Card

Includes:

- JetCard 2205
- Quick installation guide
- Documentation and software CD-ROM