

# JetCard 2215

## 4 PoE, 1 LAN, 12~24V Booster, Switch UPCI Card



CE FC  RoHS

- Support 32 bit Universal PCI bus
- One 12~24V DC input powers PCI card and PoE ports
- 4 ports PoE, IEEE 802.3af compliant, deliver 15.4W per port
- Unmanaged switch function
- 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

### Embedded Switch Card

The JetCard 2215 is a flexible and high performance five-port Ethernet PoE switch card in Universal PCI format. The easy-to-install drivers that come with JetCard make it easier for you to set up your complex system. JetCard 2215 is ideal embedded networking solution for industrial applications.

#### **12~24V DC Power Module to power system and PoE Function**

On board power module to adopt 12~24V DC input and then provides +3.3V and +5V for PCI card system use and boosts to 48V for PoE function.

#### **IEEE 802.3af Power over Ethernet**

The JetCard is IEEE802.3af standard compliant and works as a PSE (power sourcing device) to deliver 15.4W per port.

#### **Unmanaged Ethernet Switch Function**

The JetCard 2215 uses Marvell 88E6065 chip to

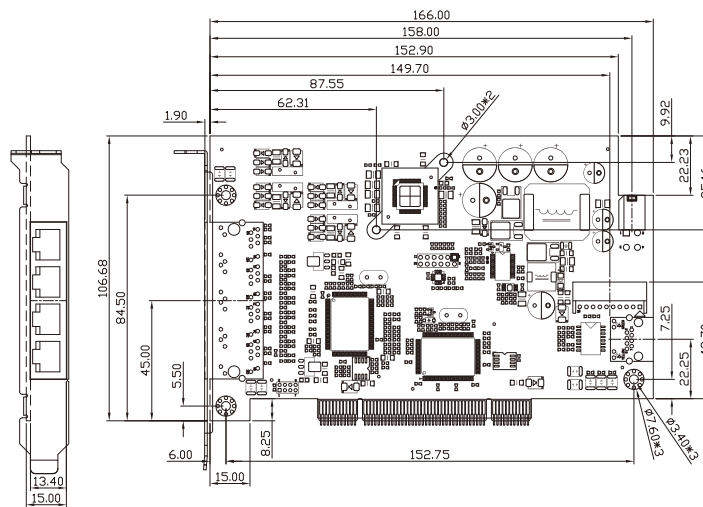
provide 5 Ethernet ports. Each Ethernet port in the JetCard offers IEEE 802.3 10 Base-T and 100 Base-Tx compliant Ethernet data transmission with auto MDI/MDI-X and auto-negotiation.

#### **Auto MDI/MDI-X:**

The JetCard automatically determine whether or not it needs to interchange cable sense between pairs so that an external crossover cable is not required. If the JetCard interoperate 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.

## Dimensions (Unit –mm)



## Specification

### Technology

#### Standard:

IEEE802.3 10 Base-T  
IEEE802.3u 100 Base-Tx  
IEEE802.3x flow control and Back Pressure  
IEEE802.3af PoE

**Processing:** Store and Forward architecture

### Interface

**Bus interface:** 32-bit Universal PCI bus

**Number of ports:** 5 Ethernet ports (4 ports use RJ45 connectors and support PoE function; 1 port use both RJ45 & JST connectors and is reserved for internal connection)  
10 Base-T/ 100 Base-Tx with auto MDI/MDI-X Auto-negotiation

**IRQ:** assigned by Universal PCI plug and play

#### OS supported:

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

### PoE Technology

**PD classification:** detection, class ID 0~3 follow IEEE802.3af standard

**PIN assignment (RJ45 connector):** V+ (Pin 4,5), V- (Pin 7,8), Tx (Pin 1,2), Rx (Pin 3,6)

**Power Limit Control:** The control mode supports IEEE802.3af standard. The maximum DC power delivery on each PoE is 15.4W@DC 48V input.

### Hardware

#### Communication controller:

Realtek RTL 8139C+  
Marvell 88E6065

**Board connector:** RJ45

#### PoE Cable connection:

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

**Dimension:** 107 x 166 mm

**Net weight:** 300g

### Performance

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

**Transfer packet size:** 64 to 1522bytes

**MAC address:** 1K MAC

**Memory buffer:** 512 Kbits

### Power requirement

**Power input:** DC 12~24V (ATX 4P connector) for system use and PoE function

**Power consumption:** 67W including PoE

### Environment

#### Operating Temp:

-20 ~ 70°C (-4 ~ 158°F), 5 to 95% RH

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

**Regulation:** CE, FCC Class A (Surge:0.5KV; ESD contact 4KV; Air 8KV)

**Warranty:** 5 years

Industrial  
PoE Switch

IP67/68  
Ethernet Switch

Rackmount  
Managed  
Switch

Gigabit Switch

Redundant  
Switch

Entry-Level  
Switch

Networking  
Computer

Communication  
Computer

Ethernet  
I/O Server

Serial Device  
Server

Media  
Converter

Multiport  
Serial Card

SFP Module

Din Rail  
Power Supply

## Ordering Information

### JetCard 2215 4 PoE, 1 LAN, 12~24V Booster, Switch UPCI Card

Includes:

- JetCard 2215
- Quick installation guide
- Documentation and software CD-ROM