

JetCard 2215

4 PoE, 1 LAN, 12~24V Booster Switch Universal PCI Card



CE FC ~~RoHS~~ RoHS



- Supports 32 bit Universal PCI bus
- 5 10/100TX ports with Auto MDI/MDI-X
- One 12~24V DC input powers PCI card and PoE ports
- 4 ports PoE, IEEE 802.3af compliant, deliver 15.4W per port, 60W per unit
- 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
- Supports Windows 7/Vista/NT/2000/2003/XP, Linux 2.4/2.6
- -25~70°C operating temperature for hazardous environment application



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

Embedded Switch Card

JetCard 2215 is a flexible and high performance 5-port Ethernet PoE switch card in Universal PCI format. JetCard 2215 is ideal embedded networking solution for transit surveillance applications.

12~24V DC Power Booster for 48V PoE: JetCard 2215 has an on board power module to adopt 12~24V DC input and then use +3.3V and +5V for PCI card system and boost to 48V for 802.3af standard PoE devices. So it needs extra 12~24V power input for system and 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: JetCard 2215 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.

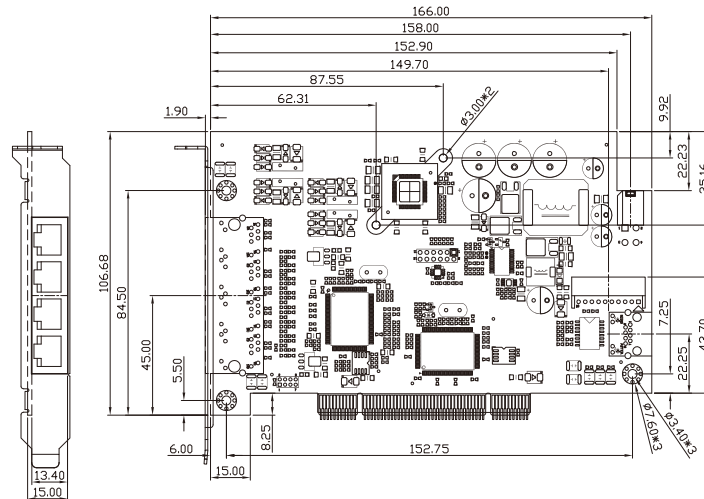
Auto MDI/MDI-X: JetCard automatically determines whether or not it needs to interchange cable sense between pairs so that an external crossover cable is not required. If JetCard interoperates with a device that cannot automatically correct for crossover, it makes the necessary adjustment prior to commencing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

JetCard 2215 usage: Without driver JetCard 2215 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.



Dimensions (Unit = mm)



Specifications

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: 10/100 Base-Tx RJ45 x5 (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 7/Vista/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

Cables:

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

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: 80W including PoE

Environment

Operating Temp:

-25 ~ 70°C (-13 ~ 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

Ordering Information

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

Includes:

- JetCard 2215
- DC Connector Cable, ATX R4 pin to L4 pin, 30cm
- Quick installation guide
- Documentation and software CD-ROM