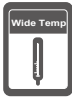


# EX42905 Series

株式会社 サイバネテック

## Unmanaged Hardened 5-port 10/100/1000BASE Ethernet Switch



### Palm Size

Provides compact size and DIN-rail mount installation

### Energy Efficient Ethernet (EEE)

Supports IEEE802.3az standards

### Jumbo Frame Support

Up to 10K bytes



## Features

- > Compliant with IEEE802.3 10BASE-T, 100BASE-TX, 1000BASE-T, and 1000BASE-SX/LX
- > 5-port 10/100/1000BASE-T, or 4-port 10/100/1000BASE-T plus 1-port 1000BASE-X
- > IEEE802.3az EEE(Energy Efficient Ethernet) supported
- > Palm size with DIN-Rail mount installation
- > Jumbo frame support up to 10K bytes
- > High speed, non-blocking four traffic class QoS switch fabric
- > Supports Auto-MDI-X and Auto-Negotiation function on all 10/100/1000BASE-T ports
- > 8K MAC address table, shared 1Mbits memory-based switch fabric
- > Front panel port status LEDs

## Ordering Information

EX42905	Unmanaged Hardened 5-port 10/100/1000BASE-T Gigabit Ethernet Switch
EX42914-X	Unmanaged Hardened 4-port 10/100/1000BASE-T+ 1-port 1000BASE-X Gigabit Ethernet Switch

### Remark: "X" stands for optical port Options :

- (X) = 3 : 1000BASE-SX(SC)-550m
- 5 : 1000BASE-SX(ST)-550m
- A : 1000BASE-LX(SC)-10km
- R : 1000BASE-BX(SC) WDM-TX:1310nm/RX:1550nm-20Km
- S : 1000BASE-BX(SC) WDM-TX:1550nm/RX:1310nm-20Km

### Power Supply Options :

The Terminal Block type external power supply are not included. Please order the following part numbers, as required:

DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

# Specifications

Technology	
Standards	<ul style="list-style-type: none"> <li>• IEEE802.3 10BASE-T</li> <li>• IEEE802.3u 100BASE-TX/100BASE-FX</li> <li>• IEEE802.3ab 1000BASE-T</li> <li>• IEEE802.3z 1000BASE-SX/1000BASE-LX</li> <li>• IEEE802.1x, Full duplex flow control</li> <li>• IEEE802.1az Energy Efficient Ethernet</li> <li>• IEEE802.1p Quality of Service(QoS)</li> </ul>
Forward and Filtering Rate	<ul style="list-style-type: none"> <li>• 14,880pps for 10Mbps</li> <li>• 148,810pps for 100Mbps</li> <li>• 1,488,100pps for 1000Mbps</li> </ul>
Packet Buffer Memory	• 1M bits
Processing Type	<ul style="list-style-type: none"> <li>• Store-and-Forward</li> <li>• Half-duplex back-pressure and IEEE802.3x full-duplex flow control</li> </ul>
Jumbo Frame	• 10K bytes
Address Table Size	• 8192 MAC addresses

Power	
Input	• Input Voltage: 12 to 48VDC
Power Consumption	• 6.5W Max. 0.25A @ 24VDC
Overload Current Protection	• Present
Reverse Polarity Protection	• Present

Mechanical	
Casing	<ul style="list-style-type: none"> <li>• Metal case</li> <li>• IP30</li> </ul>
Dimensions	• 30mm (W) x 82mm (D) x 114mm (H) (1.18" (W) x 3.23" (D) x 4.49" (H))
Weight	• 0.34Kg (0.75lb.)
Installation	• DIN-Rail (Top hat type 35mm)

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>• 10/100/1000BASE-T: 5 or 4 ports</li> <li>• 1000BASE-X: 0 or 1 ports</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>• Per Unit: Power (Green)</li> <li>• Per Port: 10/100M Link/ACT (Green), 1000M Link/ACT (Yellow)</li> </ul>

Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>• -40°C to 75°C (-40°F to 167°F)</li> <li>• Tested @ -40°C to 85°C (-40°F to 185°F)</li> </ul>
Storage Temperature	• -40°C to 85°C (-40°F to 185°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	<ul style="list-style-type: none"> <li>• EN55022</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> </ul>
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EMS	
EN61000-6-2	

EN61000-4-2 (ESD Standards)	<ul style="list-style-type: none"> <li>• Contact: + / - 6KV</li> <li>• Air: + / - 8KV</li> </ul>
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EN61000-4-3 (Radiated RFI Standards)	<ul style="list-style-type: none"> <li>• 10V/m, 80 to 1000MHz; 80% AM</li> <li>• 3V/m, 1400 to 2000MHz; 80% AM</li> <li>• 1V/m, 2000 to 3000MHz; 80% AM</li> </ul>
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EN61000-4-4 (Burst Standards)	<ul style="list-style-type: none"> <li>• Signal Ports: + / - 4.4KV</li> <li>• D.C. Power Ports: + / - 4.4KV</li> </ul>
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EN61000-4-5 (Surge Standards)	<ul style="list-style-type: none"> <li>• Signal Ports: + / - 1KV; Line-to-Line</li> <li>• D.C. Power Ports: + / - 0.5KV Line-to-Earth</li> </ul>
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EN61000-4-6 (Induced RFI Standards)	<ul style="list-style-type: none"> <li>• Signal Ports: 10Vrms @ 0.15-80MHz; 80% AM</li> <li>• D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM</li> </ul>
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EN61000-4-8 (Magnetic Field Standards)	• 30A/m @ 50, 60Hz
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### Environmental Test Compliance

IEC60068-2-6 Fc (Vibration)	• Operation/Storage/Transport: 5g, 10 - 150Hz, Amplitude 0.35mm
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IEC60068-2-27 Ea (Shock)	<ul style="list-style-type: none"> <li>• Operation: 25g @ 11ms period ; Half-Sine Shock Pulse</li> <li>• Storage/Transport: 50g @ 11ms Period ; Half-Sine Shock Pulse</li> </ul>
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IEC60068-2-32 Ed (Free fall)	• Tested with Cross Weight and Drop High standard table
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# Diagrams

Unit: mm

