

## EX42000 Series

### Unmanaged Industrial 5-port 10/100BASE Ethernet Switch



#### Value

- > 5-port 10/100BASE-TX or 4-port 10/100BASE-TX plus 1-port 100BASE-FX
- > 12 to 48VDC Power inputs
- > -10°C to 60°C (14°F to 140°F) operating temperature range
- > Provides DIN-Rail mounting
- > Full wire-speed forwarding rate



### Features

- > Provides 5-port 10/100BASE-TX or 4-port 10/100BASE-TX plus 1-port 100BASE-FX
- > The fiber port is available with SC or ST with a fiber connection that can reach up to 120Km (74.4miles)
- > -10°C to 60°C (-14°F to 140°F) and is tested for functional operation @ -20°C to 70°C (-4°F to 158°F)
- > 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- > Supports 12 to 48VDC Power inputs
- > Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment

### Ordering Information

EX42005-00-I-P	5-port 10/100BASE-TX Industrial Unmanaged Ethernet Switch
EX42014-XY-I-P	4-port 10/100BASE-TX + 1-port 100BASE-FX Industrial Unmanaged Ethernet Switch
EX42011-XY-I-P	1-port 10/100BASE-TX + 1-port 100BASE-FX Industrial Unmanaged Ethernet Switch

#### 100FX Fiber Options :

(XY) = 1A : Multi Mode (SC) - 2Km

1B : Multi Mode (ST) - 2Km

2A : Single Mode (SC) - 20Km

2B : Single Mode (SC) - 40Km

2D : Single Mode (ST) - 20Km

1H : Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm - 2Km

1J : Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm - 5Km

2E : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km

2F : Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km

1I : Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm - 2Km

1K : Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm - 5Km

2G : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km

2H : Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 40Km

\*More 100FX Fiber options also available upon request.

#### Installation Type :

(I) = 1 : DIN Rail (mounting kit is included)

#### Power Connector Options :

(P) = A : Terminal Block\*

\*Option A - 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, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x</li> </ul>
Forward and Filtering Rate	<ul style="list-style-type: none"> <li>14,880pps for 10Mbps</li> <li>148,810pps for 100Mbps</li> </ul>
Packet Buffer Memory	<ul style="list-style-type: none"> <li>384K bits</li> </ul>
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>
Address Table Size	<ul style="list-style-type: none"> <li>2048 MAC addresses</li> </ul>
Latency	<ul style="list-style-type: none"> <li>Less than 5.1µs</li> </ul>

Power	
Input	<ul style="list-style-type: none"> <li>Input Voltage: 12 to 48VDC (Terminal Block)</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>2.4W Max. 0.2A @ 12VDC, 0.1A @ 24VDC, 0.05A @ 48VDC</li> </ul>
Overload Current Protection	<ul style="list-style-type: none"> <li>Present</li> </ul>
Reverse Polarity Protection	<ul style="list-style-type: none"> <li>Present</li> </ul>

Mechanical	
Casing	<ul style="list-style-type: none"> <li>Plastic case</li> <li>IP30</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>26mm (W) x 70mm (D) x 110mm (H)</li> <li>(1.02" (W) x 2.76" (D) x 4.33" (H))</li> </ul>
Weight	<ul style="list-style-type: none"> <li>0.2Kg (0.44lb.)</li> </ul>
Installation	<ul style="list-style-type: none"> <li>DIN-Rail (Top hat type 35mm)</li> </ul>

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>10/100BASE-TX: 5, 4 or 1 ports</li> <li>100BASE-FX: 0 or 1 ports</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>Per Unit: Power Status (Power 1)</li> <li>Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)</li> </ul>

Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>-10°C to 60°C (14°F to 140°F)</li> <li>Tested @ -20°C to 70°C (-4°F to 158°F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>-25°C to 85°C (-13°F to 185°F)</li> </ul>
Ambient Relative Humidity	<ul style="list-style-type: none"> <li>5% to 95% (non-condensing)</li> </ul>

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> <li>Manufactured in an ISO9001 facility</li> </ul>
Safety	<ul style="list-style-type: none"> <li>UL60950-1</li> </ul>
EMI	<ul style="list-style-type: none"> <li>FCC Part 15, Class A, VCCI</li> <li>EN61000-6-3                             <ul style="list-style-type: none"> <li>- EN55022</li> <li>- EN61000-3-2</li> <li>- EN61000-3-3</li> </ul> </li> </ul>
EMS	<ul style="list-style-type: none"> <li>EN61000-6-2                             <ul style="list-style-type: none"> <li>- EN61000-4-2 (ESD Standards)                                     <ul style="list-style-type: none"> <li>Contact: +/- 4KV; Criteria B</li> <li>Air: +/- 8KV; Criteria B</li> </ul> </li> <li>- EN61000-4-3 (Radiated RFI Standards)                                     <ul style="list-style-type: none"> <li>10V/m, 80 to 1000MHz; 80% AM Criteria A</li> <li>3V/m, 1400 to 2000MHz; 80% AM Criteria A</li> <li>1V/m, 2000 to 2700MHz; 80% AM Criteria A</li> </ul> </li> <li>- EN61000-4-4 (Burst Standards)                                     <ul style="list-style-type: none"> <li>Signal Ports: +/- 4KV; Criteria B</li> <li>D.C. Power Ports: +/- 4KV; Criteria B</li> </ul> </li> <li>- EN61000-4-5 (Surge Standards)                                     <ul style="list-style-type: none"> <li>Signal Ports: +/- 1KV; Line-to-Line; Criteria B</li> <li>D.C. Power Ports: +/- 0.5KV; Line-to-earth; Criteria B</li> </ul> </li> <li>- EN61000-4-6 (Induced RFI Standards)                                     <ul style="list-style-type: none"> <li>Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A</li> <li>D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A</li> </ul> </li> <li>- EN61000-4-8 (Magnetic Field Standards)                                     <ul style="list-style-type: none"> <li>30A/m @ 50, 60Hz; Criteria A</li> </ul> </li> </ul> </li> </ul>
Environmental Test Compliance	<ul style="list-style-type: none"> <li>IEC60068-2-6 Fc (Vibration Resistance)                             <ul style="list-style-type: none"> <li>5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)</li> </ul> </li> <li>IEC60068-2-27 Ea (Shock)                             <ul style="list-style-type: none"> <li>25g @ 11ms (Half-Sine Shock Pulse; Operation)</li> <li>50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)</li> </ul> </li> <li>IEC60068-2-32 Ed (Free Fall)                             <ul style="list-style-type: none"> <li>1M (3.281ft.)</li> </ul> </li> </ul>

## Diagrams

