

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"> • IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x
Forward and Filtering Rate	<ul style="list-style-type: none"> • 14,880pps for 10Mbps • 148,810pps for 100Mbps
Packet Buffer Memory	<ul style="list-style-type: none"> • 384K bits
Processing Type	<ul style="list-style-type: none"> • Store-and-Forward • Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	<ul style="list-style-type: none"> • 2048 MAC addresses
Latency	<ul style="list-style-type: none"> • Less than 5.1µs

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

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

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

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

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> • Manufactured in an ISO9001 facility
Safety	<ul style="list-style-type: none"> • UL60950-1
EMI	<ul style="list-style-type: none"> • FCC Part 15, Class A, VCCI • EN61000-6-4 <ul style="list-style-type: none"> - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	<ul style="list-style-type: none"> • EN61000-6-2 <ul style="list-style-type: none"> - EN61000-4-2 (ESD Standards) Contact: + / - 6KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A 3V/m, 1400 to 2000MHz; 80% AM Criteria A 1V/m, 2000 to 3000MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4.4KV; Criteria B D.C. Power Ports: + / - 4.4KV; Criteria B - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	<ul style="list-style-type: none"> • IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) • IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) • IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Diagrams

Unit: mm

