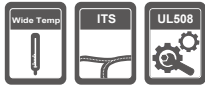


EX95000 Series

Unmanaged Hardened 16-port 10/100BASE Ethernet Switch



Value

- > Flexible configuration using 16-port 10/100BASE Ethernet
- > Redundant 12 - 48VDC power inputs
- > Versatile mounting options
- > Wide operation temperature



Features

- > Provides 14 10/100BASE-TX ports plus 2 100BASE-FX ports
- > Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- > Redundant power inputs (12 - 48VDC) with Terminal Block and DC Jack (12VDC)
- > Alarms for power failure by relay output
- > -40°C to 75°C (-40°F to 167°F) operating temperature range, tested for functional operation @ -40°C to 85°C (-40°F to 185°F).
- > Provides DIN-rail, panel or Rack mounting
- > Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- > Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment

Ordering Information

EX95160-00Z	16-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX95151-X0Z	15-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX95142-X0Z	14-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Unmanaged Ethernet Switch

100FX Fiber Options :

(X) = 1 : Multi Mode (SC) - 2Km

2 : Multi Mode (ST) - 2Km

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

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

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

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

A : Single Mode (SC) - 20Km

B : Single Mode (SC) - 40Km

H : Single Mode (ST) - 20Km

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

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

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

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

*More 100FX Fiber options also available upon request.

Power Input Interface :

(Z) = B : Terminal Block & DC Jack

Power Supply : (Optional)

*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

**Option B - The external power adapter and power cord are not included. Please order the following part numbers, as required: 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

Installation Type : DIN Rail (mounting kit is included)



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"> • 1.625M 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"> • 4096 MAC addresses
Latency	<ul style="list-style-type: none"> • Less than 10µs

Power	
Input	<ul style="list-style-type: none"> • Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	<ul style="list-style-type: none"> • 9.6W Max., 0.8A @ 12VDC, 0.4A @ 24VDC, 0.2A @ 48VDC
Overload Current Protection	<ul style="list-style-type: none"> • Present

Mechanical	
Casing	<ul style="list-style-type: none"> • Aluminum case • IP30
Dimensions	<ul style="list-style-type: none"> • 75.5mm (W) x 110mm (D) x 135mm (H) (2.98" (W) x 4.33" (D) x 5.31" (H))
Weight	<ul style="list-style-type: none"> • 0.87Kg (1.92lbs.)
Installation	<ul style="list-style-type: none"> • DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

Interface	
Ethernet Port	<ul style="list-style-type: none"> • 10/100BASE-TX: 16, 15 or 14 ports • 100BASE-FX: 0, 1 or 2 ports
LED Indicators	<ul style="list-style-type: none"> • Per Unit: Power Status (Power 1, Power 2, Power 3) • Per Port: 10/100TX, 100FX: Link/Activity
Alarm Contact	<ul style="list-style-type: none"> • One relay output with current 1A @ 24VDC

Environment	
Operating Temperature	<ul style="list-style-type: none"> • -40°C to 75°C (-40°F to 167°F) • Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	<ul style="list-style-type: none"> • -40°C to 85°C (-40°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"> • UL508
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) <ul style="list-style-type: none"> Contact: + / - 6KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> 10V/m, 80 to 1000MHz; 80% AM Criteria A 3V/m, 1400 to 2000MHz; 80% AM Criteria A 1V/m, 2000 to 2700MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) <ul style="list-style-type: none"> Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	<ul style="list-style-type: none"> • IEC60068-2-6 Fc (Vibration Resistance) <ul style="list-style-type: none"> 5g @ 10 - 150KHz, Amplitude 0.35mm (Operation/Storage/Transport) • IEC60068-2-27 Ea (Shock) <ul style="list-style-type: none"> 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) • IEC60068-2-32 Ed (Free Fall) <ul style="list-style-type: none"> 1M (3.281ft.)

Diagrams

