EX42900 Series

Hardened Unmanaged 5 port 10/100/1000BASE-T and 1-port 1000BASE-X Gigabit Ethernet Switch

Overview

EtherWAN's EX42900 Series is a compact Hardened Unmanaged Gigabit switching platform, designed for easy deployment in harsh environments.

The EX42900 Series is equipped with five Gigabit Ethernet ports, or a combination of Gigabit copper ports and one Gigabit fiber port for long distance connectivity. Although unmanaged, the EX42900 is feature rich with Jumbo Frame support, full wire speed Gigabit throughput, QoS support and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliant, making the EX42900 Series a powerful yet energy efficient network switch.

EtherWAN — "**When Connectivity is Crucial.**"

Highlights

➕ Hardened Grade

- CompliantSupports -40 to 75°C (-40 to 167°F) operating temperature

➕ Jumbo Frame Support

- CompliantUp to 10K bytes (EX42905/EX42914 Series)

➕ Fiber Connectivity

- CompliantUp to one 1000BASE-SX ports with SC and ST options

➕ High Reliability

- CompliantFanless Design
- CompliantNo moving part

Specifications

✚ Technology

- **Standards**
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-SX/1000BASE-LX
- IEEE 802.3x Full duplex flow control
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1p Quality of Service (QoS)

- **Forward and Filtering Rate**
- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

- **Packet Buffer Memory**
- EX42905/EX42914: 1M bits

- **Processing Type**
- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

- **Jumbo Frame**
- EX42905/EX42914: 10K bytes

- **Address Table Size**
- EX42905/EX42914: 8K MAC addresses

✚ Interface

- **Ethernet Ports**
- EX42905/EX42914:   10/100/1000BASE-T: 5 or 4 ports   1000BASE-X: 0 or 1 ports

- **LED Indicators**
- EX42905/EX42914:   Per Unit: Power (Green)   Per Port: 10/100M(Green), 1000M (Yellow)
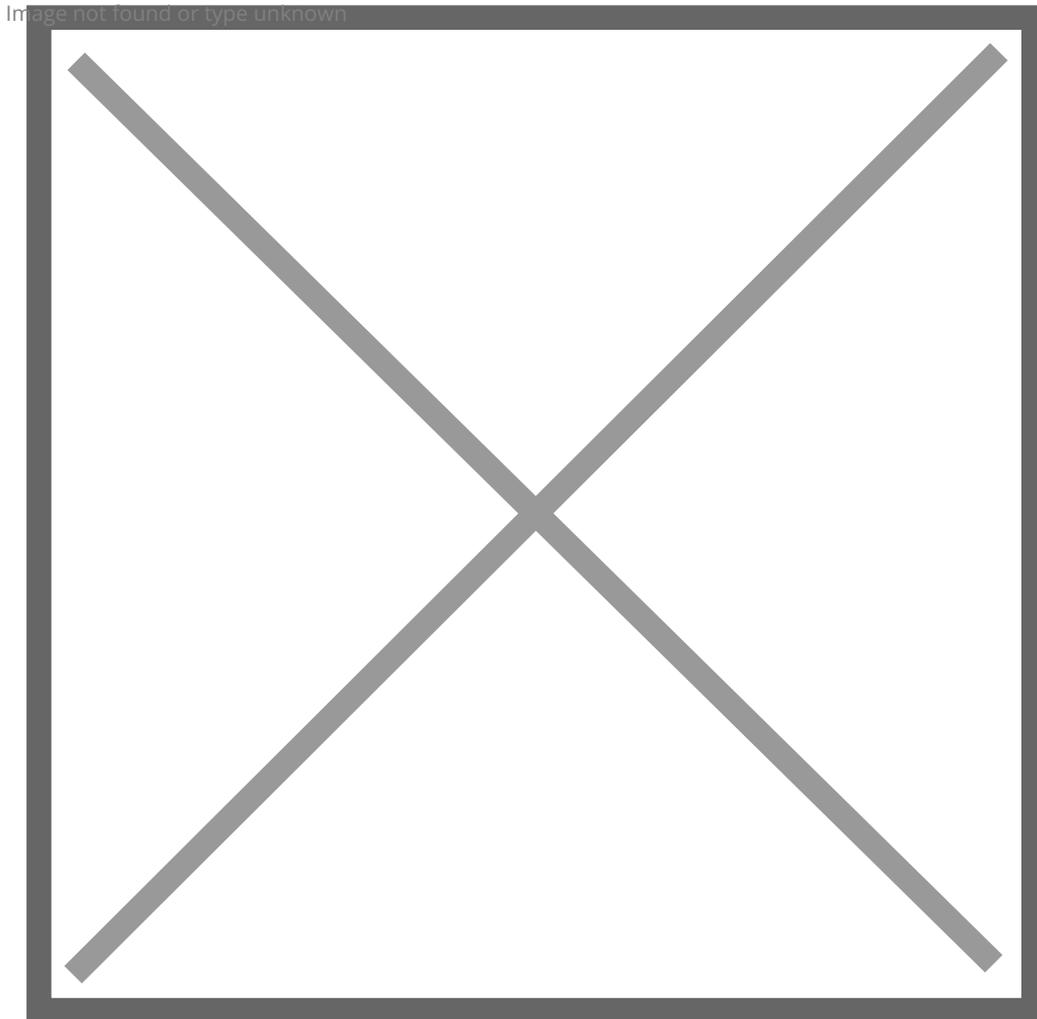
✚ Environment

- **Operating Temperature**
- -40 to 75°C (-40 to 167°F);   Tested @ -40 to 85°C (-40 to 185°F)

- **Storage Temperature**
- -40 to 85°C (-40 to 185°F)

- **Ambient Relative Humidity**
- 5% to 95% (non-condensing)

✚ Regulatory Approvals

- **ISO**
- Manufactured in an ISO 9001 facility

- **Safety**
- UL 60950 (EX42905/EX42914 Series only)

- **EMI**
- FCC Part 15B Class A
- VCCI Class A
- EN 61000-6-4
- EN 61000-3-2
- EN 61000-3-3
- EN 55022 Class A

- **EMS**
- EN 61000-6-2
    - -EN 61000-4-2 (ESD Standards)
    - -EN 61000-4-3 (Radiated RFI Standards)
    - -EN 61000-4-4 (Burst Standards)
    - -EN 61000-4-5 (Surge Standards)
    - -EN 61000-4-6 (Induced RFI Standards)
    - -EN 61000-4-8 (Magnetic Field Standards)

- **Environmental Test Compliances**
- IEC 60068-2-6 Fc (Vibration)
- IEC 60068-2-27 Ea (Shock)
- FED STD 101C Method 5007.1 (Free fall w/package)

Dimensions

Ordering Info

✚ Model

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

* DIN-Rail mounting kit included.

✚ 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

✚ Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA