



ESW-8062-Gx Series

6+2G-Port Gigabit Managed Ethernet Switches

- 2 Gigabit plus 6 fast Ethernet ports for copper
- ELITE Ring (recovery time < 10 ms), RSTP/STP (IEEE802.1W/D) for Ethernet redundancy
- QoS, IGMP snooping/GMRP, VLAN, LACP, SNMP V1/V2c/V3, RMON supported
- IEEE802.1X and https/SSL enhance network security

Features

Industrial Capability

- ELITE Ring (**recovery time < 10 ms** at full load) and RSTP/STP (IEEE802.1W/D)
- IGMP Snooping and GMRP for filtering multicast traffic from industrial Ethernet Protocols
- Port based IEEE802.1Q VLAN and GVRP protocol to ease network planning
- QoS-IEEE802.1p/1Q and TOS/DiffServ to increase determinism
- 802.3ad, LACP for optimum bandwidth utilization
- IEEE802.1X and https/SSL to enhance network security
- SNMP V1/V2c/V3 for different levels of network management
- RMON for efficient network monitoring and proactive capability

Designed for Industrial/Critical Applications

- Bandwidth management prevents unpredictable network status
- Port Lock for access from unauthorized MAC address
- Port mirroring for online debugging
- Automatic warning through e-mail and relay output



- IP30, rugged high-strength case
- Regular (0 to 60°C) and extended (-40 to 80°C) operating temperature models available
- Long-haul transmission (upt 40 km or 80 km)
- DIN-Rail and panel mounting capability
- Redundant dual 12-45 VDC power inputs and over current protection
- Windows based configuration utility – SUNIX Commander

Introduction

ESW-8062Gx is a standalone 8-port managed Ethernet switch that provides 2 gigabit ports with built-in RJ45 or gigabit optic communication. The Ethernet Redundancy **ELITE Ring (recovery time < 10 ms)** increases the reliability and speed of your network. ESW-8062Gx also supports intelligent network management functions, including QoS, IGMP Snooping/GMRP, VLAN, Port Trunking, SNMP V1/V2c/V3, IEEE802.1X, and https/SSL.

Specifications

Technology

Standards	IEEE802.3, 802.3u, 802.3x, 802.1D, 802.1W, 802.1Q, 802.1p, 802.1X, 802.3ad, 802.3z
Protocols	IGMP V1/V2/V3 device, GMRP, GVRP, SNMP V1/V2c/V3, DHCP Server/Client, DHCP Option 82, BootP, TFTP, SNTP, SMTP, RARP, RMON
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE802.3x flow control, back pressure flow control Interface

Interface

RJ45 Ports	10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed
Fiber Ports	100BaseFX (SC/ST connector)
Console	RS-232 (RJ45)
LED Indicators	Ready, PWR1, PWR2, E-Ring, Master, FAULT, LNK/ACT & 10/100/1000M (port)
Alarm Contact	Two relay outputs with current carrying capacity of 1A @ 24 VDC

Optical Fiber

100BaseFX

Distance	
Multi mode	0 to 5 km, 1300 nm (50/125 μ m, 800 MHz*km) 0 to 4 km, 1300 nm (62.5/125 μ m, 500 MHz*km)
Single mode	0 to 40 km, 1310 nm (9/125 μ m, 3.5 PS/(nm*km)) 0 to 80 km, 1550 nm (9/125 μ m, 19 PS/(nm*km))

Min. TX Output	
Multi mode	-20 dBm
Single mode	0 to 40 km, -5 dBm 0 to 80 km, -5 dBm
Max. TX Output	
Multi mode	-14 dBm
Single mode	0 to 40 km, 0 dBm 0 to 80 km, 0 dBm
RX Sensitivity	-34 to -30 dBm (Multi), -36 to -32 dBm (Single)

Power

Input Voltage	24 VDC (12 to 48 VDC), redundant dual inputs + DC Jack Power Adaptor input
Consumption	9 Watts Max
Connection	Two removable 6-pin terminal blocks + DC Jack
Overload Current Protection	Present
Reverse Polarity Protection	Present

Mechanical

Casing	IP30 protection
Dimensions (W x D x H)	56.5 x 110 x 150 mm
Installation	DIN-Rail & Wall Mounting

Environmental

Operating Temperature	0°C to 60°C (32°F to 140°F) / -40°C to 80°C for E models
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Regulatory Approvals

Safety	UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1
Hazardous location	UL/cUL Class I, Division 2, Groups A, B, C, and D (Pending) ATEX Class I, Zone 2, EEx nC IIC (Pending)
EMI	FCC Part 15, CISPR (EN55022) class A



EMS	EN61000-4-2 (ESD), level 3 EN61000-4-3 (RS), level 3 EN61000-4-4 (EFT), level 2 EN61000-4-5 (Surge), level 3 EN61000-4-6 (CS), level 3 EN61000-4-8 EN61000-4-11 EN61000-4-12
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6

Warranty: 5 years

Ordering Information

- ◆ ESW-8062-GT 6-port 10/100TX + 2-port 10/100/1000 TX/T Managed Switch
- ◆ ESW-8062-GT-E 6-port 10/100TX + 2-port 10/100/1000 TX/T Managed Switch
- ◆ ESW-8062-GMC 6-port 10/100TX + 2-port 1000 SX (Multi-Mode SC Connector) Managed Switch
- ◆ ESW-8062-GMC-E 6-port 10/100TX + 2-port 1000 SX (Multi-Mode SC Connector) Managed Switch
- ◆ ESW-8062-GMT 6-port 10/100TX + 2-port 1000 SX (Multi-Mode ST Connector) Managed Switch
- ◆ ESW-8062-GMT-E 6-port 10/100TX + 2-port 1000 SX (Multi-Mode ST Connector) Managed Switch
- ◆ ESW-8062-GSC 6-port 10/100TX + 2-port 1000 LX (Single Mode SC Connector) Managed Switch
- ◆ ESW-8062-GSC-E 6-port 10/100TX + 2-port 1000 LX (Single Mode SC Connector) Managed Switch
- ◆ ESW-8062-GST 6-port 10/100TX + 2-port 1000 LX (Single Mode ST Connector) Managed Switch
- ◆ ESW-8062-GST-E 6-port 10/100TX + 2-port 1000 LX (Single Mode ST Connector) Managed Switch

E Models = Extended Operating Temperature -40 ~ 80°C