



## ESW-8062-xx Series

### 6+2-Port Fast Ethernet Managed Switches

- 2 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-8062xx is a standalone 8-port managed Ethernet switch that provides 2 ports with built-in RJ45 or 100FX optic communication. The Ethernet Redundancy ELITE Ring (recovery time < 10 ms) increases the reliability and speed of your network. ESW-8062xx 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

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

### Interface

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

### Optical Fiber

#### 100BaseFX

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



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

### Power

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

### Mechanical

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

### Environmental

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

### Regulatory Approvals

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



<b>EMS</b>	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
<b>Shock</b>	IEC60068-2-27
<b>Freefall</b>	IEC60068-2-32
<b>Vibration</b>	IEC60068-2-6

**Warranty:** 5 years

## Ordering Information

- ◆ ESW-8062-TX 6-port 10/100TX + 2-port 10/100 TX Managed Switch
- ◆ ESW-8062-TX -E 6-port 10/100TX + 2-port 10/100 TX Managed Switch
- ◆ ESW-8062-MMC 6-port 10/100TX + 2-port 100 FX (Multi-Mode SC Connector) Managed Switch
- ◆ ESW-8062-MMC-E 6-port 10/100TX + 2-port 100 FX (Multi-Mode SC Connector) Managed Switch
- ◆ ESW-8062-MMT 6-port 10/100TX + 2-port 100 FX (Multi-Mode ST Connector) Managed Switch
- ◆ ESW-8062-MMT-E 6-port 10/100TX + 2-port 100 FX (Multi-Mode ST Connector) Managed Switch
- ◆ ESW-8062-SSC 6-port 10/100TX + 2-port 100 FX (Single Mode SC Connector) Managed Switch
- ◆ ESW-8062-SSC-E 6-port 10/100TX + 2-port 100 FX (Single Mode SC Connector) Managed Switch
- ◆ ESW-8062-SST 6-port 10/100TX + 2-port 100 FX (Single Mode ST Connector) Managed Switch
- ◆ ESW-8062-SST-E 6-port 10/100TX + 2-port 100 FX (Single Mode ST Connector) Managed Switch

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