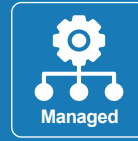


ES 4010GP-2SFP

8+2 Port Industrial Managed PoE+ Gigabit Ethernet Switch



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 2x 100/1000/2500F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, MRP, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle

Ordering Information

ES 4010GP-2SFP

- 8x 10/100/1000T(x) with 30W PSE + 2x 100/1000/2500F(x) SFP Slot
- Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

Optional Accessories

DRL-48V120W1EN Industrial DIN-Rail Power Supply, 120W, 48VDC (metal case)

DRL-48V240W1EN Industrial DIN-Rail Power Supply, 240W, 48VDC (metal case)

SFPFM2 SFP, 100Mbps, LC, multi-mode, 2KM, 0~70°C

SFPFS30 SFP, 100Mbps, LC, single-mode, 30KM, 0~70°C

SFPGM05 SFP, 1000Mbps, LC, multi, DDM, 550M, 0~70°C

SFPGM2 SFP, 1000Mbps, LC, multi, DDM, 2KM, 0~70°C

SFPGS10 SFP, 1000Mbps, LC, single, DDM, 10KM, 0~70°C

ES 4010GP-2SFP

8+2 Port Industrial Managed PoE+ Gigabit Ethernet Switch

Technology

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3z 1000BaseX
 IEEE 802.3x Flow Control
 IEEE 802.3af Power over Ethernet
 IEEE 802.3at PoE+
 IEEE 802.3az Energy-Efficient Ethernet
 IEEE 802.3ad/802.1AX LACP
 IEEE 802.1D Spanning Tree Protocol
 IEEE 802.1w Rapid STP
 IEEE 802.1s Multiple STP
 ITU-T G.8032 / Y.1344 ERPS
 IEC 62439-2 Media Redundancy Protocol
 IEEE 802.1Q VLAN Tagging
 IEEE 802.1ad Stacked VLANs
 IEEE 802.1p Class of Service
 IEEE 802.1X Network Authentication
 IEEE 802.1AB LLDP
 IEEE 1588 PTP

Standards

Processing Type Store and Forward

Switch Properties

Switch Fabric 20Gbps
Priority Queues 8 Queues
Jumbo Frame 9216bytes
MAC Table Size 16K
Packet Buffer 4Mbits
VLAN Table Size 4094
IGMP Group 512
ACL Group 512

Software Feature

Network Redundancy RSTP, MSTP, G.8032 ERPSv2, IEC 62439-2 MRP, Port Trunking with LACP
Security 802.1X, RADIUS, TACACS+, SSL, SSH
Management IPv4, IPv6, Web, Telnet, Serial Console, CLI, SFTP, SNMP v1/v2c/v3, uPnP
Diagnostics RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, DDM, Cable Diagnostic, RSPAN
Configuration Filter DHCP Server/Client, Relay Option 82, TFTP, USB
Filter 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync. NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles Ethernet/IP, Modbus TCP, Profinet

Interface

RJ45 Port 8x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port 2x 100/1000/2500F(x) SFP Slot
PoE Pin Out V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A
 Per unit: PWR1, PWR2, Fault, Ring Master, Ring State
LED Indicators Ports: Link/Active(Green)
 PoE: Output Power(Amber)
Alarm Contact 1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs 1x isolated input from the electronics.
 +13 to +30V for state "1"
 -30 to +3V for state "0"
 Max. input current: 8mA
Button Multiple functions reset button
Serial Console 1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage 1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

Power Requirements

Operation Voltage 48-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
Connection 1x removable 4-contact terminal block
Power Consumption 0.28A@48VDC without PDs' consumption
PoE Power Budget Max. 240 W for total PD consumption, Max. 30 W per PoE port
Protection Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure Aluminum
Protection Class IP30
Dimensions 72x154x118 mm (WxHxD)
Weight 0.88 kg
Mounting DIN-Rail Mounting, Wall Mounting

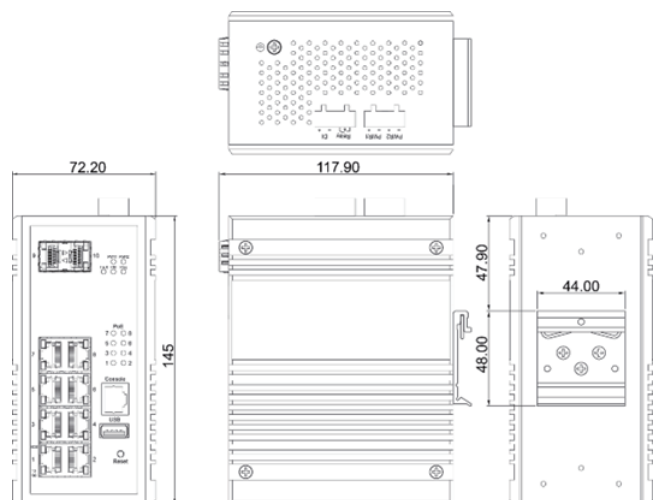
Environmental Limits

Operating Temperature -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature -40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity 5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI FCC Part 15 Subpart B Class A
 CE EN 55032 Class A
 IEC61000-4-2 (ESD)
 IEC61000-4-3 (RS)
EMS IEC61000-4-4 (EFT)
 IEC61000-4-5 (Surge)
 IEC61000-4-6 (CS)
 IEC61000-4-8 (Magnetic Field)
Free Fall IEC60068-2-32
Shock IEC60068-2-27
Vibration IEC60068-2-6
Green RoHS Compliant
Certifications IEC 61000-6-2
 IEC 61000-6-4
MTBF >100,000 hours
Warranty 5 Years

Dimensions (mm)



Features with star(*) implies those are Optional.
 In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

