

850G-10PWI Industrial Ethernet Switch

Introduction

Proscend 850G-10PWI Industrial Ethernet Switch features friendly manageability in full Gigabit Ethernet networks, as well as 1000Mbps Ethernet speed over copper and fiber for enabling quality of services, network security, and resilience. As a result, the 850G-10PWI is the perfect solution for reducing network response time for mission-critical applications such as video security, transportation, energy, etc.



The 850G-10PWI's built-in power booster enables extra wide range power input from 24VDC to 57VDC, for widening external power supply selection, each of the 8 10/100/1000Base-T ports with Power-over-Ethernet power source is IEEE 802.3at compliant and capable of delivering up to 30 watts to power an IP camera, IP phone, Wi-Fi Access Point or advanced HMI, to ease the power cabling over single Ethernet cable. The 2 SFP slots are used to work with SFP (Small form-factor pluggable) fiber transceivers to scale out modern industrial networks with the ring, daisy chain, or tree topologies.

Features

- Wide range power input 24VDC ~ 57VDC
- Embedded dashboard of real-time device monitoring
- Embedded topology map and friendly management on neighboring devices
- Operating temperature -10°C ~ 70°C
- Total PoE power budget up to 240W
- ERPS Ring failover protection
- Jumbo Frames
- DIN-rail mounted

Specifications

Interface

- 8 x 10/100/1000BASE-T PoE RJ45
- 2 x 100FX/GbE SFP
- DIP Switch
- 6-PIN Terminal Block

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-SX/LX
- IEEE 802.3 Auto-negotiation
- IEEE 802.3x Flow Control
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1p Class of Service
- IEEE 802.1X Port Authentication
- IEEE 802.1AB LLDP
- IEEE 802.1D STP
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Plus

Performance

- Jumbo Frame Size: 10KBytes
- MAC Table Entries: 8K
- Switch Fabric: 20Gbps

Reliability

- STP/RSTP
- ERPS v1/v2
- Code redundancy

Management

- HTTP, HTTPS, CLI, Telnet, SSH
- SNMP v1, v2c, v3, Trap, Syslog,
- Management VLAN
- LLDP
- Web Firmware Upgrade, SNTP, DHCP Client
- Port Mirroring

VLAN

- 802.1Q VLAN
- Port-based VLAN (Port Isolation)

Traffic Control

- 802.1p QoS, Flow Control, Traffic Monitor
- Storm Control, Port Isolation, Loop Detection
- Storm alarm threshold per port

Security

- ACL
- Port Security (MAC limit)
- Port-based 802.1X
- BPDU Guard / Filter, ROOT Guard
- Trusted Managed Host

PoE/PoE+

- PoE Scheduling, PD Alive Check
- PoE Power on/off, PoE Priority
- Power budget control per system/port
- Power Delay

Mechanical

- Dimension (H x D x W): 160 x 120 x 50 mm
- Weight: 560g
- DIN-rail
- Metal IP30

Power

- Dual power inputs, 24~57 VDC
- System power consumption: 13W
- PoE Power Budget: 120W @ 24 VDC, 240W @ 48 VDC
- Alarm relay output: 1A @ 24 VDC

LED Indicators

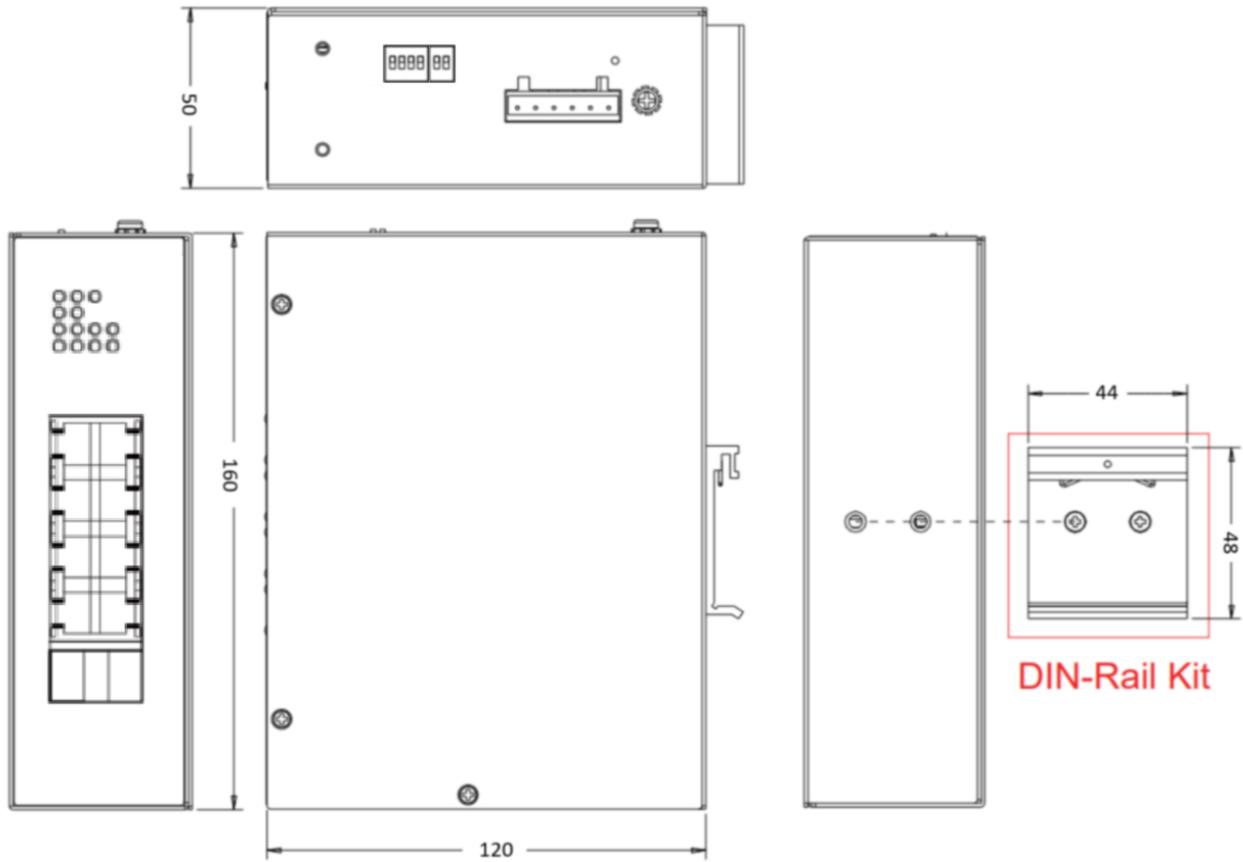
- Power input, PoE, Alarm
- Ethernet LAN Port Link & Speed, SFP Port Link

Environment & Regulatory Compliance

- Operation temperature: -10 to +70°C
- Storage temperature: -40 to +85 °C
- Humidity (non-condensing): 5 to 95% RH
- Vibration, Shock & Freefall: IEC60068-2-6, -27, -32
- EMI: FCC Part 15 Subpart B Class A, EN 55032 (class A), EN55011 (2009 class A), EN 61000-6-4
- EMS: EN 55035, EN 61000-6-2, EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (Burst), EN 61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-6 (PFMF)

Dimensions

Unit: mm



Ordering Information

Model Name	Description
850G-10PWI	Industrial 10-Port GbE Managed PoE Switch (802.3at PoE GbE x 8, GbE SFP x 2, power input 24VDC ~ 57VDC)

NOTE: Features and specifications are subject to change without prior notice.