

The Signamax I-300 Series Managed Industrial Switches are designed for the extreme environments typically found in industrial and outdoor applications. Housed in rugged enclosures, the I-300 series switches feature extended shock and vibration specifications along with wide operating temperature ratings. The fully redundant ring technology provides fault-tolerant networks with high availability and 20ms healing times using industry standard technologies.

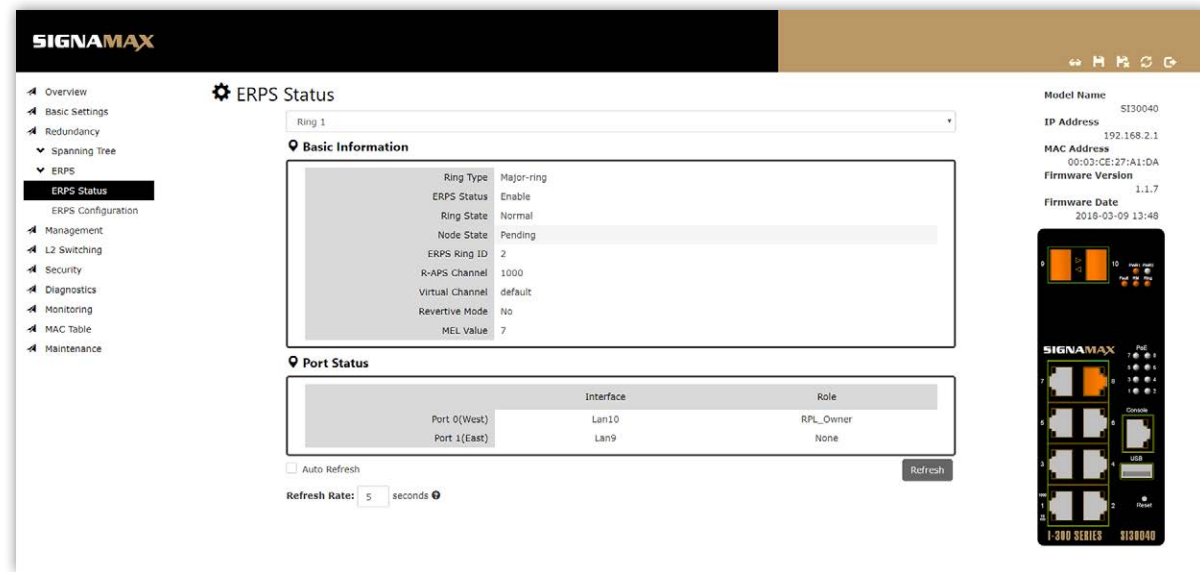


- Rugged IP30 enclosure with integrated DIN-Rail and wall mounting options
- Wide operating temperature: -40 to 167 °F
- Surge protection (4 kV LAN) for extreme outdoor environments
- Redundant terminal block DC inputs with overload and reverse polarity protection
- Cost-effective, reliable, and secure layer 2 switches
- Non-Blocking switches with up to 40Gbps bandwidth support
- Up to 16 PoE+ ports
- ERPSv2 support for 20ms disconnection recovery time
- Gigabit SFP ports on all models
- USB port for image/configuration backup, restore, and upgrade
- 5 year hardware warranty & support at no additional cost

Features for deployment in any solution.

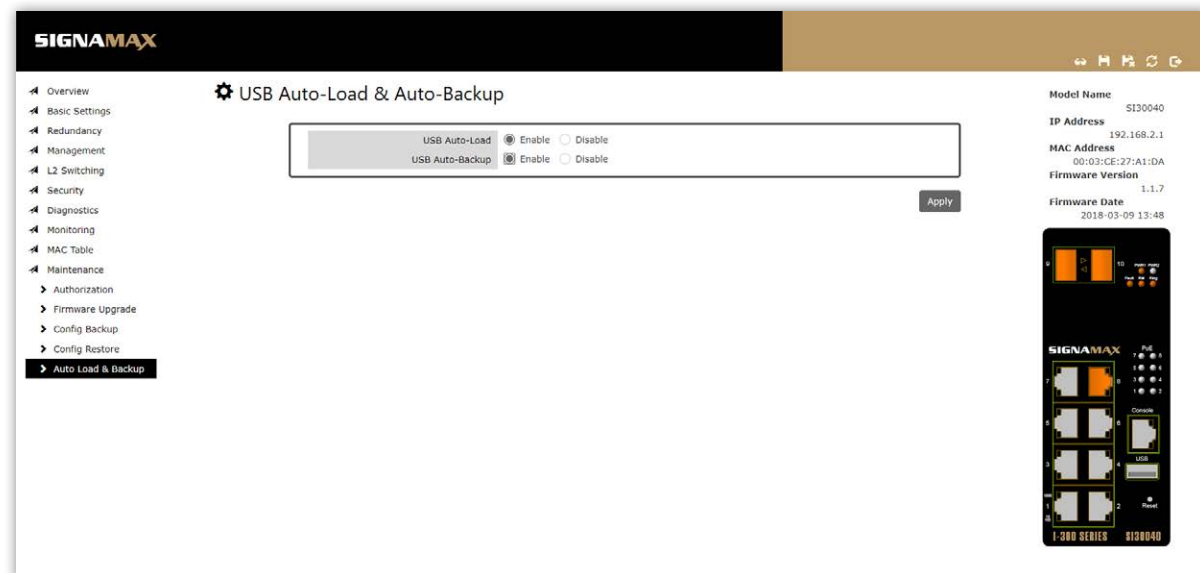
RUGGED RELIABILITY:

The I-300 series industrial switches have IP30 rating, corrosion resistant, aluminum alloy cases and are hardened for vibration, shock, surge, and noise immunity. Components are built for harsh environments and temperature ranges. In case of fault, the I-300 series can be connected to an alarm siren that will be triggered when the fault is detected. Fully redundant ring technology creates fault-tolerant networks with high availability using industry standard technologies.



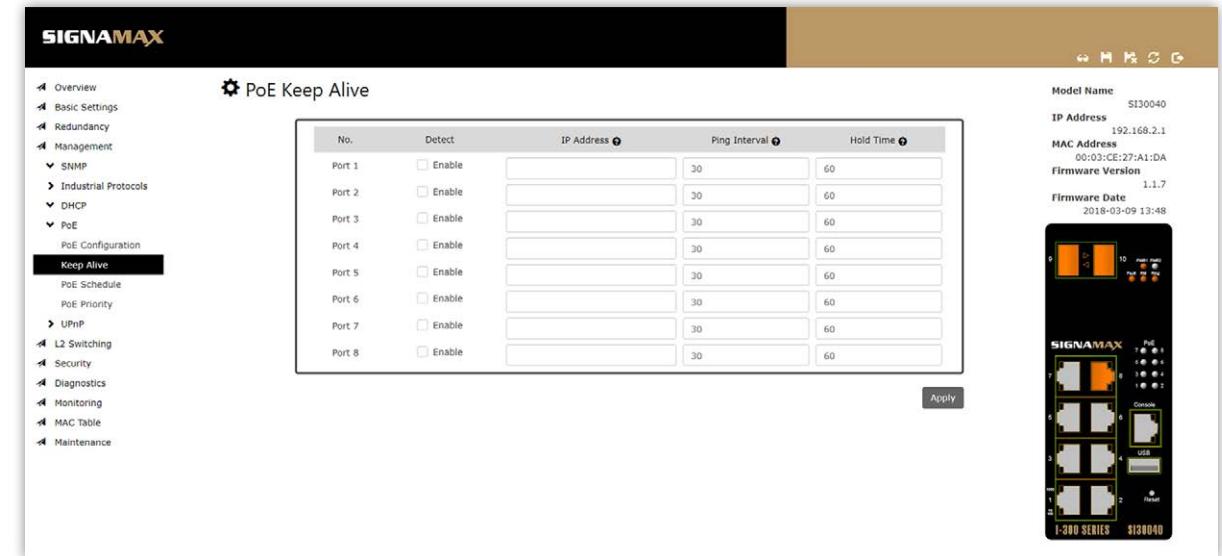
SIMPLIFIED MANAGEMENT:

The I-300 series includes an easy to use Graphical User Interface that allows simple configuration and monitoring via a web browser. Fully deployable in minutes, this series has no need for a console cable or any command line configuration to get started or even recover from misconfiguration. The auto firmware upgrade and back features ensure the network is kept up-to-date with bug fixes, security updates, and new features without overburdening the network administrator.



INTELLIGENT PoE:

The I-300 PoE switches support PoE+ up to 30W. The innovative PoE Scheduling allows the administrator complete control and flexibility regarding the power provided, whereas, the Keep Alive feature monitors attached devices and can reboot them in case of failure. Each individual PoE port can be configured for prioritization, scheduling, and consumption with dynamic power allocation.



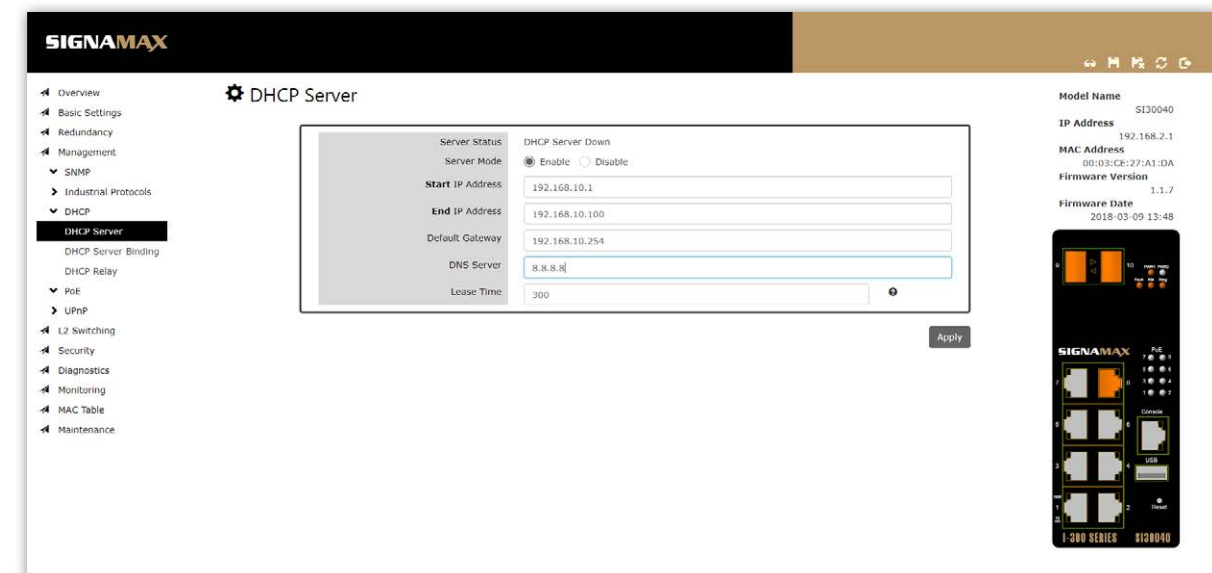
FIBER CONNECTIVITY:

All I-300 series industrial switches include multiple fiber connectivity ports that enable deployment in chain and ring topologies. The 16 port switches include four SFP ports while the 8 port models include two SFP ports, each providing 1Gbps uplinks. The SI30010 model can aggregate 8 downstream fibers via 100/1000 SFP ports in addition to the 4 uplink SFP ports.



ENTERPRISE GRADE:

The I-300 series runs a sophisticated operating system that provides a variety of advanced features including:

- DHCP Server
- Dynamic VLAN assignment and Auto Voice VLAN
- Link Aggregation (LACP)
- IGMP and MLD snooping
- ITU-T G.8032v2/Y.1344 (ERPSv2)
- 802.1ad Q-in-Q VLAN



I-300 Series Models & Specifications

PART NUMBER		SI30010	SI30021
Switches			
			
Ports	RJ-45 10/100/1000 Ports	8	16
	100/1000 SFP Ports	8	0
	Gigabit SFP Ports	4	4
	PoE Ports	0	16
PoE	PoE Budget	N/A	240W
	Switching Capacity	40Gbps	40Gbps
Performance	Forwarding Rate	29.7Mpps	29.7Mpps
	MAC Addressing	16K	16K
	Max Power Consumption	23W	258W
Electrical & Environmental	MTBF	311K hrs	291K hrs
	Operating Temperature	-40 to 167 °F (-40 to 75 °C)	-40 to 167 °F (-40 to 75 °C)
	Dimensions	3.67 x 5.7 x 4.7 in (9.3 x 14.5 x 11.8 cm)	3.59 x 5.7 x 4.7 in (9.1 x 14.5 x 11.8 cm)
Physical Characteristics	Weight	3.48 lb (1.58 kg)	3.09 lb (1.4 kg)
	Mounting	DIN-Rail & Wall	DIN-Rail & Wall

Specifications

PERFORMANCE

- 16K MAC Addresses
- 256MB DRAM
- 12Mb Packet Buffer
- Supports 10K Jumbo Frames
- Wirespeed forwarding
- IPv4/IPv6 Dual Protocol Stack

SECURITY

- Broadcast/Multicast/Unknown Storm Control
- Up to 128 Access Control Lists (ACL) based on L2/L3/L4
- MAC Authentication
- AAA (IEEE 802.1X RADIUS/TACACS+)
- IP Source Guard
- Encrypt switch access with SSH and SSL

LAYER 3

- DHCP Client / Server / Relay

LAYER 2

- SFP ports support IEEE 802.3z (1000SX/LX/LHX/ZX)
- SI30010 SFP ports support IEEE 802.3u (100FX)
- IEEE 802.3x Flow Control

Spanning Tree:

- IEEE 802.1D Spanning Tree Protocol (STP),
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP),
- IEEE 802.1s Multiple Rapid Spanning Tree Protocol (MSTP)

Up to 4094 IEEE 802.1Q (802.3ac) VLANs:




- Port-Based
- Auto Voice VLAN
- 802.3ad Link Aggregation (static and LACP)

Multicast:

- IGMP v1/v2/v3 snooping
- IGMP Queries
- IGMP Immediate leave
- IGMP Static Multicast Addresses
- MLD Snooping
- IEEE 802.1AB LLDP/LLDP-MED
- ITU-T G.8032v2/Y.1344 - Ethernet Ring Protection Switching (ERPSv2)
- Q-in-Q

QoS

- Rate Limiting (Ingress/Egress Port-Based)
- Priority Queues Schedule (WRR/Strict Priority/Hybrid QoS)
- Port-Based QoS
- IPv4/IPv6 DSCP
- DiffServ
- Auto VOIP
- 8 HW Queues per port for 802.1p priority tagging
- Policy based dynamic QoS

PART NUMBER		SI30030	SI30040	SI30050
Switches				
				
Ports	RJ-45 10/100/1000 Ports	16	8	8
	100/1000 SFP Ports	0	0	0
	Gigabit SFP Ports	4	2	2
	PoE Ports	0	8	0
PoE	PoE Budget	N/A	240W	N/A
	Switching Capacity	40Gbps	20Gbps	20Gbps
Performance	Forwarding Rate	29.7Mpps	14.9Mpps	14.9Mpps
	MAC Addressing	16K	16K	16K
	Max Power Consumption	23W	257W	17W
Electrical & Environmental	MTBF	331K hrs	335K hrs	369K hrs
	Operating Temperature	-40 to 167 °F (-40 to 75 °C)	-40 to 167 °F (-40 to 75 °C)	-40 to 167 °F (-40 to 75 °C)
	Dimensions	3.67 x 5.7 x 4.7 in (9.3 x 14.5 x 11.8 cm)	2.8 x 5.7 x 4.7 in (7.2 x 14.5 x 11.8 cm)	2.8 x 5.7 x 4.7 in (7.2 x 14.5 x 11.8 cm)
Physical Characteristics	Weight	2.76 lb (1.25 kg)	1.94 lb (0.88 kg)	1.87 lb (0.85 kg)
	Mounting	DIN-Rail & Wall	DIN-Rail & Wall	DIN-Rail & Wall

MANAGEMENT

- Web-based Graphical User Interface (GUI)
- Industry-standard CLI (Telnet/SSH) with context-sensitive help
- Console management port on the front panel for ease of access
- USB Port
- Alarm Relay Contact
- Auto Firmware Upgrade
- Auto Configuration Backup
- Comprehensive SNMP MIB support for standards based device management
- Dual Image/Configuration
- RMON (groups 1,2,3 and 9)
- NTP
- SNMP v1/v2/v3
- Modbus
- UPnP

DIAGNOSTIC TOOLS

- Digital Diagnostic Monitoring (DDM) on SFP Ports
- Ping Polling
- Port Mirror
- Event/Error Log/Syslog/SMTP Alerts

PHYSICAL CHARACTERISTICS

- Housing:** IP30 protection, aluminum alloy case
- Mounting:** DIN-Rail and wall mounting

PoE

- Support IEEE 802.3af/IEEE802.3at on each port
- Dynamic Power Allocation
- PoE Scheduling
- PoE Keep Alive

ELECTRICAL CHARACTERISTICS

- DC Input Range:**
- Non-PoE Models:** 12 ~ 48V DC, Dual Redundant
- PoE Models:** 48 ~ 57V DC, Dual Redundant
- 4kV LAN Surge protection
- Reverse polarity and overload current protection

ENVIRONMENTAL REQUIREMENTS

- Storage Temperature:** -40 to 185°F (-40 to 85°C)
- Operating/Storage Humidity:** 5 to 95% (non-condensing)

CERTIFICATIONS

- Emissions:** CE Mark: EN 55022, Class A; FCC Part 15 Class A
- Immunity:** IEC 61000-4-2/3/4/5/6/8
- Environmental:** Shock (IEC 60068-2-27), Free Fall (IEC 60068-2-32), Vibration (IEC 60068-2-6)

WARRANTY

- Five Years

Ordering Information & Accessories



INDUSTRIAL SWITCHES

PART NO.	DESCRIPTION
SI30010	16 Port (8 SFP) Industrial Gigabit Managed Switch
SI30021	16 Port Industrial Gigabit PoE+ Managed Switch
SI30030	16 Port Industrial Gigabit Managed Switch
SI30040	8 Port Industrial Gigabit PoE+ Managed Switch
SI30050	8 Port Industrial Gigabit Managed Switch

ACCESSORIES

AC30020	I-300 Series Replacement Console Cable
AM30120	I-300 Series Replacement Wall-Mounting Kit

POWER SUPPLIES

AP10010	48W Industrial Power Supply - 24V DC (-40 to 158°F)
AP30010	120W Power Industrial Supply - 48V DC (-40 to 140°F)
AP30020	240W Power Industrial Supply - 48V DC (-40 to 140°F)

Visit www.signamax.com for specification information.

SFP MODULES

PART NO.	DESCRIPTION
065-79SXMG-H	1000SX Multi-Mode SFP Module 850nm up to 550m
065-79LXMG-H	1000LX Single-Mode SFP module 1310nm up to 10km
065-79ZXMG-H	1000ZX Single-Mode SFP Module 1550nm up to 80km
AS11010	100FX Extended Temp Multimode SFP for GE Port, 2km
AS11020	100FX Extended Temp Singlemode SFP for GE Port, 15km
065-73FXMM5MG-H	100FX / OC-3 / STM-1 Multi-Mode SFP Module 1300nm up to 5km
065-73FXSM20MG-H	100FX / OC-3 / STM-1 Single-Mode SFP Module 1300nm up to 20km

For a complete list of SFP Modules visit www.signamax.com.



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