



**I-SERIES**

**Industrial Switches & Media Converters**

**SIGNAMAX™**

**NETWORK  
SOLUTIONS**

# Industrial Ethernet I-SERIES

## I-300 Managed Switches | I-100 Unmanaged Switches | I-1100 Media Converters

As industrial applications migrate to Ethernet based network systems, they require more reliable products. Signamax Network Solutions offers high quality Industrial Switches and Media Converters that use enterprise grade components but with simplified deployment and management.

The Signamax's I-Series switches and media converters are designed for the extreme environments typically found in industrial and outdoor applications. Housed in rugged corrosion resistant, aluminum alloy enclosures, the I-Series feature excellent EMI protection, extended shock and vibration specifications, and wide operating temperature ratings.



- Rugged IP rated enclosures with integrated DIN-Rail mounting brackets
- 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 on I-300 Series models
- Gigabit SFP ports on select options
- 5 year hardware warranty & support at no additional cost

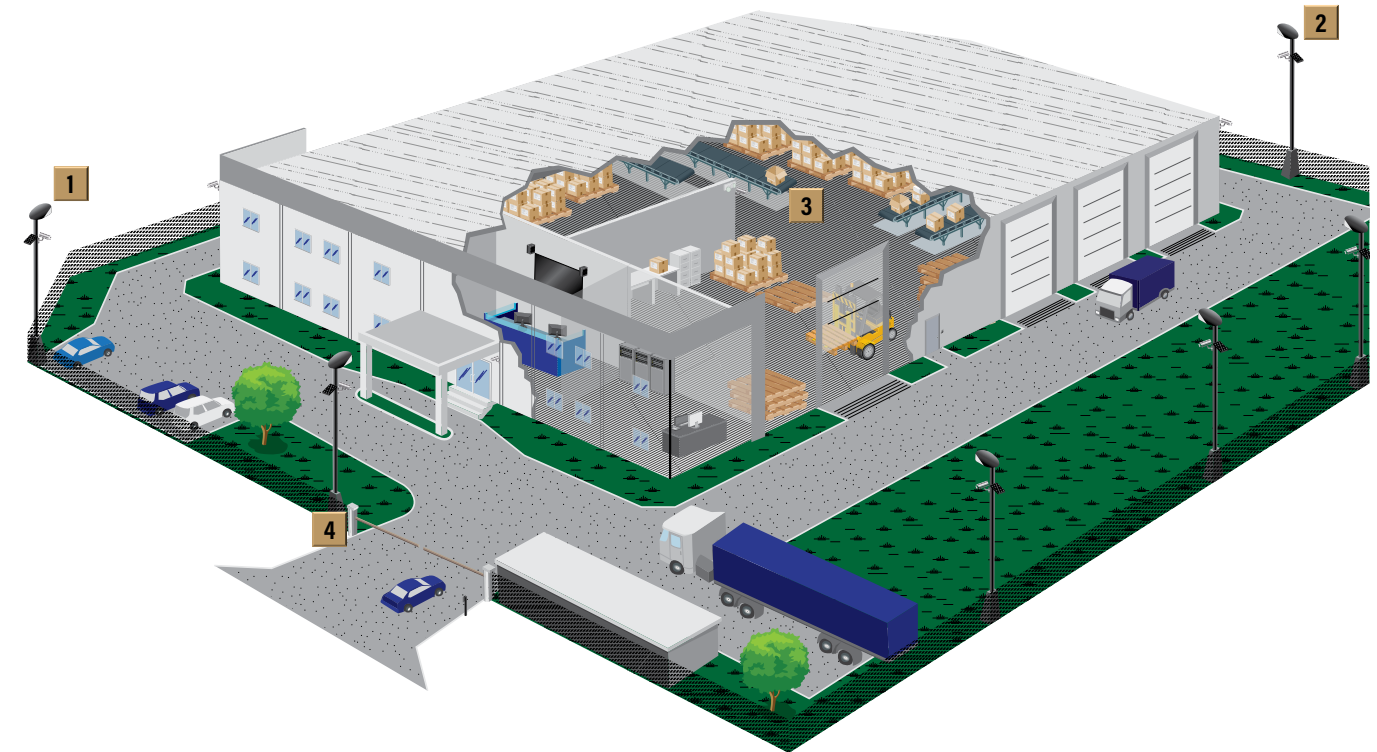
## The I-Series Capabilities

With 16 models of switches and media converters, Signamax's I-Series provides the ultimate in network flexibility.

The I-300 series runs a sophisticated operating system that provides advanced features with industry leading ease of management.

The I-100 series zero touch plug and play can be deployed in minutes and is ideal for unsecured locations.






The I-1100 series media converters extend your network over any type of fiber.








1. The I-Series includes **8 PoE+ switch and media converter models** for any outdoor security camera network deployment. The I-300 Series switches include PoE Scheduling and Keep Alive functions.
2. The **wide operating temperature range** allows deployment in any region and with **4 kV LAN surge protection**, lightning is no longer a concern. All I-Series devices are equipped with an **integrated DIN-Rail mounting bracket** for simple installation in an enclosure. With **zero touch Plug and Play**, deployment of the I-100 switches and I-1100 Media Converters can be done in minutes.
3. Over the last few years, industrial networks have evolved to rely on Ethernet. The I-Series switches and media converters provide the **performance, flexibility and reliability** required for PLC network systems.
4. The I-Series switches and media converters include **multiple fiber options** for any deployment topology. 2 Gigabit SFP ports enable deployment in chain and ring topologies. The 16 port I-300 model can aggregate 8 downstream fibers via 100/1000 SFP ports for star deployments. The I-1100 Series Media Converters have 100FX Singlemode and Multimode fixed fiber models for point to point fiber connections.






## I-300 SERIES MANAGED SWITCHES

PART NUMBER		SI30010	SI30021	SI30030	SI30040	SI30050
<b>Switches</b>						
<b>Ports</b>	RJ-45 10/100/1000 Ports	8	16	16	8	8
	100/1000 SFP Ports	8	0	0	0	0
	Gigabit SFP Ports	4	4	4	2	2
	PoE Ports	0	16	0	8	0
<b>PoE</b>	PoE Budget	N/A	240W	N/A	240W	N/A
	Switching Capacity	40Gbps	40Gbps	40Gbps	20Gbps	20Gbps
<b>Performance</b>	Forwarding Rate	29.7Mpps	29.7Mpps	29.7Mpps	14.9Mpps	14.9Mpps
	MAC Addressing	16K	16K	16K	16K	16K
	Max Power Consumption	23W	258W	23W	257W	17W
<b>Electrical &amp; Environmental</b>	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)	-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)	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)
<b>Physical Characteristics</b>	Weight	3.48 lb (1.58 kg)	2.09 lb (1.4 kg)	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	DIN-Rail & Wall	DIN-Rail & Wall
	<b>Suggested Power Supply</b>	AP10010	AP30020	AP10010	AP30020	AP10010




## I-100 SERIES UNMANAGED SWITCHES

PART NUMBER		SI10011	SI10021	SI10031	SI10041	SI10050
<b>Switches</b>						
<b>Ports</b>	RJ-45 Ports	8 - 10/100/1000	8 - 10/100/1000	4 - 10/100/1000	4 - 10/100/1000	6 - 10/100
	Gigabit SFP Ports	2	2	2	2	0
	PoE Ports	8	0	4	0	4
<b>PoE</b>	PoE Budget	240W	N/A	120W	N/A	120W
	Switching Capacity	20Gbps	20Gbps	12Gbps	12Gbps	1.2Gbps
<b>Performance</b>	Forwarding Rate	14.9Mpps	14.9Mpps	8.9Mpps	8.9Mpps	0.9Mpps
	Packet Buffer	4Mb	4Mb	2Mb	2Mb	448Kb
	MAC Addressing	8K	8K	8K	8K	1K
<b>Electrical &amp; Environmental</b>	Max Power Consumption	244W	4W	124W	4W	124W
	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)	-40 to 167 °F (-40 to 75 °C)	-40 to 167 °F (-40 to 75 °C)
<b>Physical Characteristics</b>	Dimensions	1.9 x 5.7 x 5.3 in (4.8 x 14.5 x 13.4 cm)	1.9 x 5.7 x 5.3 in (4.8 x 14.5 x 13.4 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)
	Weight	1.54 lb (0.7 kg)	1.54 lb (0.7 kg)	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)
	Mounting	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable
<b>Suggested Power Supply</b>	AP30020	AP10010	AP30010	AP10010	AP30010	

## I-1100 SERIES MEDIA CONVERTERS

PART NUMBER		MI10010	MI10020	MI10030
<b>Converters</b>				
<b>Ports</b>	RJ-45 Ports	2 - 10/100/1000	2 - 10/100/1000	2 - 10/100
	Uplink Ports	2 - Gigabit SFP	2 - Gigabit SFP	1 - SC/MM
	PoE Ports	2	0	2
<b>PoE</b>	PoE Budget	60W	N/A	60W
	Max Power Consumption	64W	4W	64W
<b>Electrical Characteristics</b>	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	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)
<b>Physical Characteristics</b>	Weight	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)
	Mounting	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable
	<b>Suggested Power Supply</b>	AP30010	AP10010	AP30010

## I-1100 SERIES MEDIA CONVERTERS

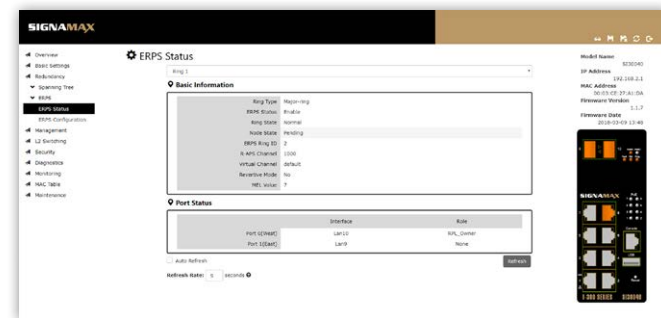
PART NUMBER		MI10040	MI10050	MI10060
<b>Converters</b>				
<b>Ports</b>	RJ-45 Ports	2 - 10/100	2 - 10/100	2 - 10/100
	Uplink Ports	1 - SC/SM	1 - SC/MM	1 - SC/SM
	PoE Ports	2	0	0
<b>PoE</b>	PoE Budget	60W	N/A	N/A
	Max Power Consumption	64W	4W	4W
<b>Electrical Characteristics</b>	Operating Temperature	-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	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)	1.2 x 4.7 x 3.9 in (3 x 11.9 x 10 cm)
<b>Physical Characteristics</b>	Weight	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)
	Mounting	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable
	<b>Suggested Power Supply</b>	AP30010	AP10010	AP10010

## Features for deployment in any solution.

### I-300 SERIES MANAGED SWITCHES OFFER:

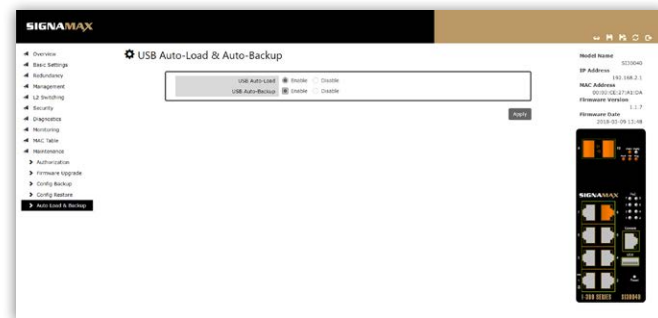
#### RUGGED RELIABILITY:

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 easy to use Graphical User Interface of the I-300 series 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.

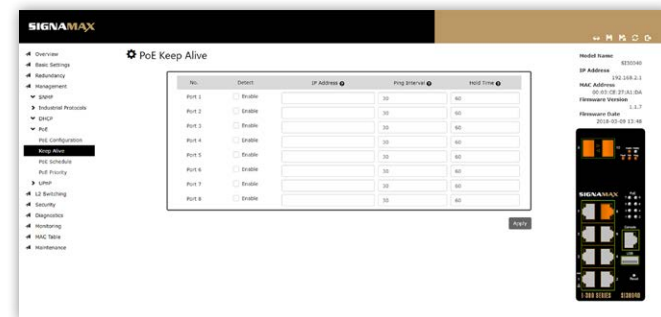


#### FIBER CONNECTIVITY:

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.

#### INTELLIGENT PoE:

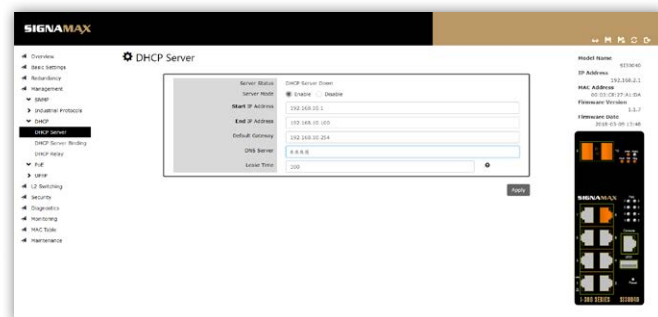
The I-300 PoE switches support PoE+ up to 30W. The innovative PoE Scheduling allows the administrator complete control and flexibility regarding the power provided, whereas, the Keep Alive feature monitors attached devices and can reboot them in case of failure. Each individual PoE port can be configured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



#### 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



## Ordering Information



### I-300 MANAGED 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

All switches include the mounting accessories required to do all available mounting options.



### I-100 UNMANAGED SWITCHES

PART NO.	DESCRIPTION
SI10011	8 Port Industrial Gigabit PoE+ Switch
SI10021	8 Port Industrial Gigabit Switch
SI10031	4 Port Industrial Gigabit PoE+ Switch
SI10041	4 Port Industrial Gigabit Switch
SI10050	4 Port Industrial Fast Ethernet PoE+ Switch

All switches include the mounting accessories required to do all available mounting options.



### I-1100 MEDIA CONVERTERS

PART NO.	DESCRIPTION
MI10010	Gigabit SFP PoE+ Industrial Media Converter
MI10020	Gigabit SFP Industrial Media Converter
MI10030	10/100 to 100FX PoE+ Industrial Media Converter, SC/MM
MI10040	10/100 to 100FX PoE+ Industrial Media Converter, SC/SM
MI10050	10/100 to 100FX Industrial Media Converter, SC/MM
MI10060	10/100 to 100FX Industrial Media Converter, SC/SM



# Accessories Ordering Information



## POWER SUPPLIES

PART NO.	DESCRIPTION
AP10010	48W Industrial Power Supply - 24V DC (-40 to 158°F)
AP30010	120W Industrial Power Supply - 48V DC (-40 to 140°F)
AP30020	240W Industrial Power Supply - 48V DC (-40 to 140°F)

Visit [www.signamax.com](http://www.signamax.com) for specification information.

## ACCESSORIES

PART NO.	DESCRIPTION
AC30020	I-300 Series Replacement Console Cable
AM30120	I-300 Series Replacement Wall-Mounting Kit
AM30130	Rack Mount Bracket with adjustable depth for DIN-Rail equipment

## INDUSTRIAL 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](http://www.signamax.com)



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