SIGNAMAX NETWORK SOLUTIONS

I-1100 SERIES

Industrial Media Converters
Product Specifications

The Signamax I-1100 Series industrial media converters are designed to connect Ethernet equipment to fiber optical cable that operates in the extreme environments like those found in industrial and outdoor applications. Housed in rugged enclosures, the I-1100 Series media converters feature excellent EMI protection and wide operating temperature ratings. With zero touch plug and play, the series is ideal for easy deployment of any industrial application.

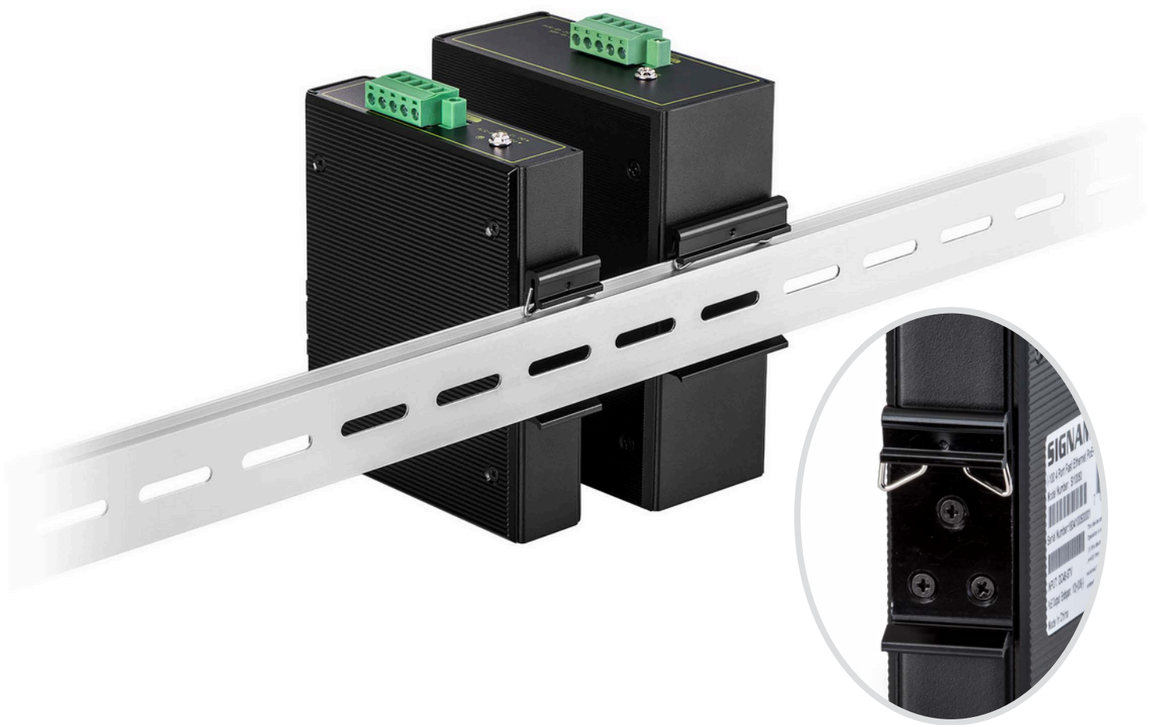
- Rugged IP40 enclosure with integrated DIN-Rail mounting bracket
- Wide operating temperature: -40 to 167°F
- Surge protection (4 kV LAN) for extreme outdoor environments
- Redundant terminal block DC inputs
- Overload and reverse polarity protection
- Zero touch Plug and Play connectivity
- Non-Blocking, wire speed media conversion
- PoE+ support
- Fixed fiber Multimode, Singlemode or SFP options
- 5 year hardware warranty & support at no additional cost

I-1100 Series Models & Specifications

PART NUMBER		MI10010	MI10020	MI10031
Converters				
Ports	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
PoE	PoE Budget	60W	N/A	60W
Electrical Characteristics	Max Power Consumption	64W	4W	64W
	MTBF	539K hrs	539K hrs	539K hrs
Physical Characteristics	Dimensions (WxHxD)	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 3.6 x 3.5 in (3.1 x 9.2 x 8.8 cm
	Weight	0.78 lb (0.35 kg)	0.78 lb (0.35 kg)	0.53 lb (0.24kg)
	Mounting	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable

PART NUMBER		MI10041	MI10051	MI10061
Converters				
Ports	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
PoE	PoE Budget	60W	N/A	N/A
Electrical Characteristics	Max Power Consumption	64W	4W	4W
	MTBF	539K hrs	539K hrs	539K hrs
Physical Characteristics	Dimensions (WxHxD)	1.2 x 3.6 x 3.5 in (3.1 x 9.2 x 8.8 cm	1.2 x 3.6 x 3.5 in (3.1 x 9.2 x 8.8 cm	1.2 x 3.6 x 3.5 in (3.1 x 9.2 x 8.8 cm)
	Weight	0.53 lb (0.24 kg)	0.53 lb (0.24 kg)	0.53 lb (0.24 kg)
	Mounting	DIN-Rail Mountable	DIN-Rail Mountable	DIN-Rail Mountable

Simple Installation



Ordering Information

MEDIA CONVERTERS	
PART NO.	**DESCRIPTION**
MI10010	Gigabit SFP PoE+ Industrial Media Converter
MI10020	Gigabit SFP Industrial Media Converter
MI10031	10/100 to 100FX PoE+ Industrial Media Converter, SC/MM
MI10041	10/100 to 100FX PoE+ Industrial Media Converter, SC/SM
MI10051	10/100 to 100FX Industrial Media Converter, SC/MM
MI10061	10/100 to 100FX Industrial Media Converter, SC/SM

Specifications

PERFORMANCE

Supports 10K Jumbo Frames (MI10010 & MI10020)
Wirespeed Forwarding

LAYER 2

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX (except for MI10010 & MI10020)
IEEE 802.3ab 1000BaseT
IEEE 802.3 Auto-Negotiation
SFP ports support IEEE 802.3z (1000SX/LX/LHX/ZX)
IEEE 802.3x Flow Control

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

PoE

Support IEEE 802.3af/IEEE 802.3at on each port
Dynamic Power Allocation

ENVIRONMENTAL REQUIREMENTS

Operating Temperature: 40 to 167°F (-40 to 75°C)
Storage Temperature: -40 to 185°F (-40 to 85°C)
Operating/Storage Humidity: 5 to 95% (non-condensing)

PHYSICAL CHARACTERISTICS

Housing: IP40 aluminum alloy case

CERTIFICATIONS

Emissions: CE Mark: EN 55022, Class A; FCC Part 15 Class A
Safety: CE/LVD EN60950

WARRANTY

Five Years

Accessories Ordering Information

POWER SUPPLIES

AP10010	48W Industrial Power Supply - 24V DC (-40 to 158°F)
AP30010	120W Power Industrial Supply - 48V DC (-40 to 140°F)
AP3002	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 Extended Temperature SFP Module 850nm LC/MM, 550/220m
065-79LXMG-H	1000LX Extended Temperature SFP Module 131nm LC/SM, 10km
065-79ZXMG-H	1000ZX Extended Temperature SFP Module 1550nm LC/SM, 80km
AS11010	100FX Extended Temperature MM SFP for Gigabit Port, 2km
AS11020	100FX Extended Temperature SM SFP for Gigabit Port, 15km

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

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