SNI-1MC INDUSTRIAL MINI MEDIA CONVERTER WITH 30/60/90W POE

WISENET

Industrial Ethernet Solutions

Wisenet mini media converters provide a multirate 100Mb/Gigabit Ethernet uplink over fiber via the SFP port with 30W, 60W or 90W PoE. Additional features are supported by user-configurable DIP switches for advanced functionality.

Gigabit x1	**100/1000** x1	**Temp** -40°C~+75°C	**Protection** IP40	**Mounting** DIN/Surface	**Mounting** Magnetic	**NDAA/TAA** Compliant

[SNI-1MC]

/ OVERVIEW

Designed in an ultra compact DIN rail or wall mount housing, the Wisenet series miniature media converters are ideally suited for connecting equipment to Ethernet networks over long distances using all types of fiber through the integrated SFP port. Fiber connectivity is determined by separate SFP device selection, providing application and site flexibility.

Available as a PoE model for IEEE802.3at 30W and IEEE802.3bt 60/90W they are suitable for powering the latest high powered PoE devices over a wide industrial operating temperature range.

User selectable DIP switches allow for configuration of the intelligent link fault pass-through feature for remote end failure detection as well as remote device reset to allow end device reboots from the control room and 250M extended distance mode on the RJ45 port.

/ FEATURES

— Ultra compact size – ideal for confined spaces, including camera housings and roadside cabinets

— -40°C to +75°C temperature maintains performance in extreme conditions

— DIN rail or wall mountable - quick to install and remove for maintenance (an optional magnetic mount is also available)

— All SFP ports are multirate 100Mb/Gigabit – support single and multimode, single or dual fiber options up to 120Km

— DIP switch selection of link fault pass-through, remote device reset and extended distance modes

— Supports 15W, 30W, 60W and 90W PoE

— Auto-Negotiation (802.3u) – automatically determines the best connection speed

— Designed in the USA & UK. Manufactured in the United Kingdom

— Lifetime Support Warranty

Specifications.

Standards.

IEEE802.3i	10Base-T
IEEE802.3u	100Base-TX & 100Base-FX
IEEE802.3ab	1000Base-T
IEEE802.3z	1000Base-X
IEEE802.3af	15W PoE
IEEE802.3at	30W PoE+
IEEE802.3bt	60 & 90W PoE
IEEE802.3x	Flow Control
Jumbo Frames	9.2Kbytes
Address Table	2K MAC Entries

Interface.

LED Indicators	1x Power
	SFP Link/Activity
	RJ45 Link/Activity
	PoE
	Alarm
RJ45 Ports	1x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and 2 kV Isolation Protection
SFP Slot	1x 100/1000FX SFP
Power	1x 2-way Screw Terminal

Switches.

Switch	1x 4 Position DIP Switch
Switch Functions	Link Fault Pass-Through Mode
	Remote Reset Mode
	Extended Distance Mode

Power.

Power Inputs	1
Operating Voltage:	
Non-PoE	12-56V_{DC}
30W PoE	48-56V_{DC}
60/90W PoE	52-56V_{DC}
Power Consumption	2.5W Max (without PoE Load)
PSE Modes:	Mode A, Mode B
Protection	Reverse Polarity
	Overload Current

Packaging.

Shipping Weight	0.24kg / 0.53lb
Dimensions	(W x D x H)
	155 × 145 × 50 mm
	6.10 × 5.71 × 1.97 in

Mechanical.

Housing Dimensions:	Anodised Aluminium
	(W x D x H)
Excluding DIN & Wall Mounts	31 × 57 × 57 mm
	1.22 × 2.24 × 2.24 in
IP Rating	IP40
Installation	Wall Mount or DIN-Rail
	Optional Magnetic Mounts
Weight	0.14kg / 0.31lb

Environmental.

Operating Temp.	-40 to +75°C / -40 to +167°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	5% to 95% (non-condensing)
MTBF	>500,000 hours
MTBF Standard	Telcordia SR-332 GF 30°C
Heat Dissipation	7 BTU/h (Non-PoE)
	109 BTU/h (30W PoE)
	314 BTU/h (90W PoE)
Cooling	Passive Cooling
Noise Level	0 dBA

Regulatory.

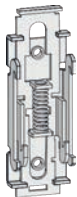| Safety	IEC/EN 62368-1
EMI	EN 55032 Class A
	CISPR 32
	FCC Part 15B Class A
EMS	EN 61000-4-2 (ESD)
	EN 61000-4-3 (RS)
	EN 61000-4-4 (EFT)
	EN 61000-4-5 (Surge)
	EN 61000-4-6 (CS)
	EN 61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	Reach, RoHS, WEEE
Traffic	NEMA TS2
Supply Chain	NDAA & TAA Compliant

Designed to meet EN 50121-4

Part Numbers.

Single Channel Mini PoE Media Converters (1+1)

SNI-1MC	1 × 10/100/1000BaseT(x) RJ45 with 30/60/90W PoE, 1 × 100/1000BaseFx SFP, Mini

Included Accessories.

DIN Rail Adapter	Rear/Side/Bottom Mounted Metal DIN Rail Clip & Screws For DIN Rail Mounting
Wall Mount Adapter	Rear/Side/Bottom Mounted Wall Mounting Plate & Screws For Wall / Surface Mounting

Optional Accessories.

SNI-MAG-02	2x Rear/Side/Bottom Mounted Magnets & Screws Kit For SNI-1MC, need to be ordered separately
SFP Modules	100Mb & 1Gb Optical/Copper Modules see separate list, need to be ordered separately

Recommended PSUs.

Non-PoE Mode

AMGPSU-W12-P25	Plug Top Mounting Lite Industrial Grade PSU, 0 to +70°C, 12VDC, 25W, UK/EU/US Plug Heads Included
AMGPSU-I12-P24	DIN-Rail Mount Industrial Grade PSU, -40 to +70°C, 12VDC, 24W*

PoE Modes

AMGPSU-I48-P60	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 43-56VDC, 60W*
AMGPSU-I48-P120	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 120W*^

* Also available in kit form including mains line cord, DC cable and DIN rail. Order with -K at the end of the part code (e.g. AMGPSU-I48-P120-K).
^ Also available with no exposed mains terminals and direct IEC input kit. Order with -IEC at the end of the part code (e.g. AMGPSU-I48-P120-IEC).

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