

Features

- ▶ 1-port 10/100/1000BASE-T RJ45 with auto MDI / MDI-X function
- ▶ **1 SFP Port, 100Base-FX or 1000Base-X dual mode** (auto detection)
- ▶ Supports IEEE802.3af PoE (15.4W) or IEEE802.3at PoE+(30W)
- ▶ IEEE 802.3az Energy Efficient Ethernet (EEE) compliant
- ▶ Supports Full/Half-duplex, Auto-negotiation
- ▶ **12~48VDC Terminal Block Power Input**
- ▶ Supports DIN-Rail & Wall-mount installation
- ▶ Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

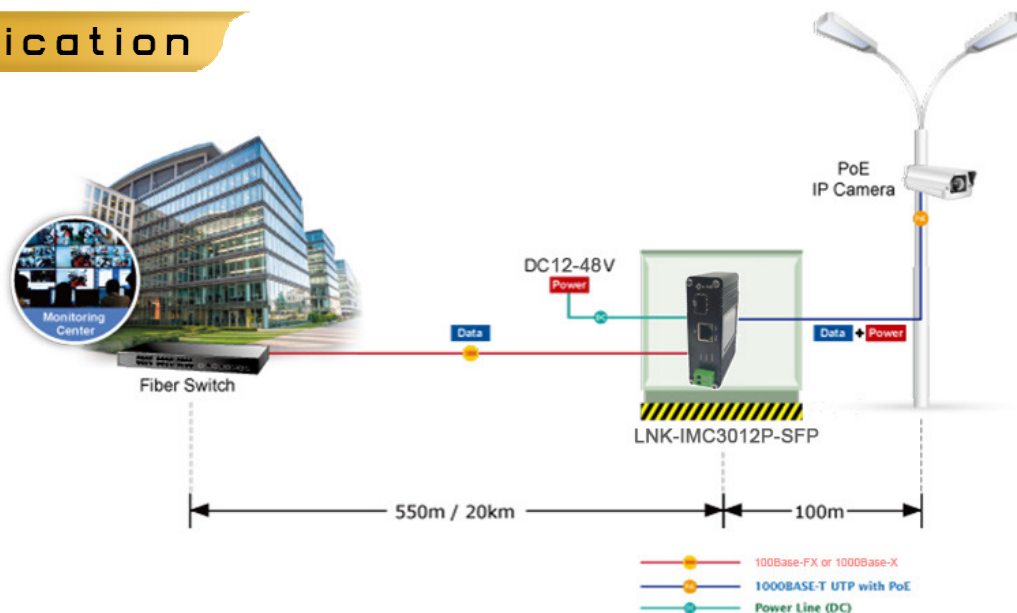


Overview

20101870 is a DIN rail type media converter that supports external SFP Modules and meets EN55022 standard. The Ethernet port support high power PoE (Power Sourcing Equipment) which complies with IEEE802.3at standard. It is a hardened grade product whose operating temperature range is -40° C to +75° C.

20101870 supports 10/100/1000Base-T with 30W PoE+ and 100/1000Base-X SFP Port. The Ethernet port supports both half-duplex and full-duplex mode. Users can use different type of SFP modules (single-mode/multi-mode fiber, 1/2 core) as needed.

Application



Technical Indexes

Ethernet	
Standards:	IEEE802.3 10Base-T
	IEEE802.3u 100Base-TX/FX
	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X
	IEEE 802.3az Energy Efficient Ethernet (EEE)
	IEEE802.3af Power over Ethernet
	IEEE802.3at Power over Ethernet
Processing Type:	Store-and-Forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	1 Mbit
Max Packet Length:	9K Bytes
Address Table Size	2048K MAC Addresses
Interface	
Connector:	1x RJ45
Optical Port:	1 x SFP 1000Base-X or 100Base-FX (auto detection)
Electrical and Mechanical	
Input Power:	12~48VDC, 2-pin terminal block
Output Power	48VDC
Power Consumption:	36W Max.
LED Indicators:	
PWR:	Power Status
L/A:	Data LINK Status
POE:	PoE Status
100M/1000M:	Fiber LINK Status
Dimensions (WxDxH):	95 x 70 x 30 mm
Weight:	0.25Kg
Casing:	Aluminum Case
Mounting Options:	DIN-Rail / Wall-mount
Environmental	
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
MTBF	> 200,000 hrs
Regulatory Approvals	
ISO9001, CE, FCC, RoHS	
EMI:	
EN55022:2010+AC: 2011, Class A	
EN 61000-3-2: 2006+A1: 2009+A2: 2009	
EN 61000-3-3: 2013	
EN55024: 2010	

EMS:

IEC 61000-4-2: 2008 (ESD)

IEC 61000-4-3: 2010 (RS)

IEC 61000-4-4: 2012 (EFT)

IEC 61000-4-5: 2014 (Surge)

IEC 61000-4-6: 2013 (CS)

IEC 61000-4-8: 2009 (PFMF)

Ordering Information

Model	Description
20101870	Hardened 10/100/1000BASE-TX to 100/1000BASE-X SFP Ethernet Media Converter with PoE+
SFP Options	<ul style="list-style-type: none"> ▶ SFP option. Please select your SFP on our SFP Options Page (Industrial SFP). ▶ SFP module is to be purchased separately.
Mounting Options	▶ Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	<ul style="list-style-type: none"> ▶ 75W/1.6A 48VDC Power Supply. Open Wire for Terminal Block ▶ Power Supply is to be purchased separately.

DIREKTRONIK

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