SPM-DT2X-PXT

Mini Industrial Ethernet Media Converter

The Mini Industrial Gigabit Ethernet media converter that provides cost effective, entry-level media conversion between 1x10/100/1000Base-TX ports and 1000Base-FX ports. With its fixed configuration, deployments are just plug-and-play, and with it is small size, it is ideal for locations where space is limited.It is able to operate under temperatures ranging from -40°C to 75 °C and is with IP40 rugged case to make sure the continuous operation in harsh environments such as transportation, factories, outdoors and places where extremely low or high temperatures can be experienced.

Features

- 10/100/1000Mbps Full/Half Duplex, Auto- Negotiation and Auto-MDI/MDIX
- Choice of LC SFP Connectors for MM & SM
- Robust IP40 Aluminum Metal Enclosure for Harsh Environments
- Operate stably under the Temperature Range of -40 ～ 75℃
- LED Indicates Diagnostic & DIP-switch Ethernet OAM
- Support IEEE 802.3x Flow Control

- Both Desktop and Wall Mounting installation
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The industrial converter is equipped with rugged IP40 metal enclosure to ensure industrial operation in harsh environments where extreme low or high temperatures can be experienced.

It is specially designed for outdoor and industrial applications such as city surveillance systems, smart manufacturing, etc. It is ideal for miniaturization and rapid deployment, provides users a cost-effective and highly reliable option.

Product Specifications

Ethernet Interface	
Ports	1x10/100/1000Base-TX RJ45 ports, 1x100/1000Base-FX SFP/SC
Port Mode(Tx)	Auto Negotiation Speed Full/Half Duplex Mode Auto MDI/MDI-X Connection
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control
Maximum Packet Length	Up to 10K
Forward Filter Rate	14,880pps(10Mbps) 148,800pps(100Mbps) 1,488,000pps(1000Mbps)
Transmission Mode	Store and Forward (full/half duplex mode)
Transmission Distance	
SFP Port	Depends on optical module(0-160km)
RJ45 Port Transmission Distance	100m（using standard CAT5/CAT5e cable）
Power Information	
Input Power	12VDC
Power Consumption	2.4W Max. 0.2A@12VDC
Physical Characteristics	
Housing	Aluminum case
IP Rating	IP40
Dimensions	36.2mm*117mm*24.5mm
Installation Mode	Wall Mounting
Weight	0.15Kg
Working Environment	

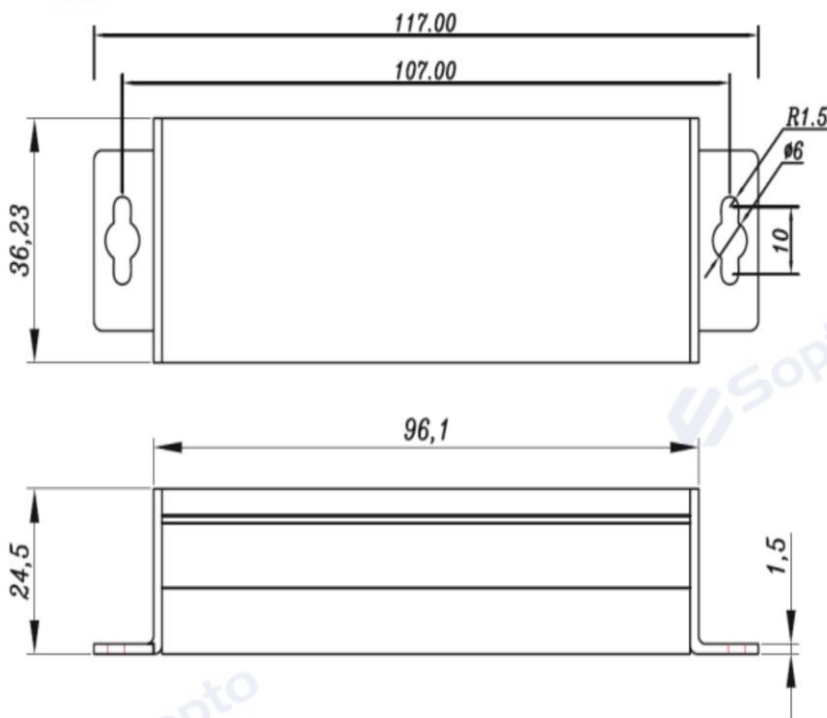| Operating Temperature	-40℃~75℃ (-40 to 167 ℉)
Operating Humidity	5%~90% (non-condensing)
Storage Temperature	-40℃~85℃ (-40 to 185 ℉)
DIP Switch	
#1	LFP(Link Fault Pass Through) ON/OFF
#2	ALS(Only for SFP) ON/OFF
#3	FX Rest ON/OFF
#4	FX Speed Setting OFF: Fixed 1000M ON: 100M/1000M
Certification Standard	
EMC/EMI/EMS	FCC Part15 Class A CE-EMC/LVD RoHS EN61000-4-2 (ESD):LEVEL 4 IEC 6100-4-2 (EFT):LEVEL 4 IEC 6100-4-2 (Surge): LEVEL 4 IEC 6100-4-2 (CS)：LEVEL 3 IEC 61000-4-2(PFMP) : LEVEL 5 EN61000-4-3 (RS):LEVEL 4
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
SPMeefall	IEC60068-2-31
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1, UL 508
Warranty	
MTBF	＞ 300,000 hours
Defects Liability Period	5 years warranty, lifetime technical support

Accessories(Sold Separately)

Power Supply	
SPM-I-40-24	DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
SPM-I-60-24	DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
SPM-75-24	45W/2A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature
SFP Optical Transceiver	
SPT-P131G-10TD	Transceiver SFP 1310nm 1.25G 10km LC Interface with DDM Industrial Temperature -40℃-85℃

SPT-P131G-40TD	Transceiver SFP 1310nm 1.25G 40km LC Interface with DDM Industrial Temperature -40℃-85℃
SPT-PB35/531G-L20TD	1.25Gb/s 1310nm/1550nm 20km BiDi SFP，Industrial Temperature -40℃ -85℃
Armored Fiber Patch Cable / LAN Cable	
SPP-CPRI-LC-LC-UU-2D-70-XHB	Patch Cord CPRI Duplex 2× LC/UPC 2× LC/UPC /0.5M branch on both sides 2.0mm branch G.652D 7.0mm (1~50)M length LSZH Armored breakout
SPLC-6SC-26-XDH	LAN cable Straight-throuth Cat6，LSZH， Pure Copper 26AWG Single pair shielded+ braided (0.5~3)M with RJ45 Connecters

Dimensions

Precautions

To avoid damage to the equipment and personal injury caused by improper use, please observe the following precautions:

- Keep the power off during installation, wear an anti-static wrist, and ensure that the anti-static wrist is in good contact with the skin to avoid potential safety hazards.
- The switch can work normally under the correct power supply. Please confirm that the power supply voltage matches the voltage indicated by the switch.

- Before powering on the switch, please make sure that the power circuit is not overloaded, so as not to affect the normal   operation of the switch and even cause unnecessary damage.

- To avoid the risk of electric shock, do not open the case while the switch is working, even if it is not charged, do not open it yourself.

- Before cleaning the switch, pull out the power plug of the switch. Do not wipe with a wet cloth. Do not use liquid to clean it.

- The equipment installed in the rack is generally from bottom to top to avoid overload installation.

  Avoid placing other heavy objects on the surface of the switch to avoid accidents.

Order Information

Part Number	Product Description
SPM-DT4X-PXT	Mini Industrial Media Converter, 10/100Base-TX to 100Base-FX SFP, 12VDC
SPM-DT2X-PXT	Mini Industrial Media Converter, 10/100/1000Base-TX to 1000Base-FX SFP, 12VDC
SPM-D12T2X-PXT	Mini Industrial Media Converter, 2X10/100/1000Base-TX to 1000Base-FX SFP, 12VDC

Note: If you need more customized services, please contact us.

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