



INDUSTRIAL GRADE FIBER TO ETHERNET POE MEDIA CONVERTER

DDMCPI SERIES



SYNOPSIS

- THE DDMCPI SERIES IS INDUSTRIAL POE MEDIA CONVERTER.
- IT IS THE IDEAL SOLUTION FOR POWERING REMOTE DEVICES SUCH AS IP PHONES, VIDEO CAMERAS, WIRELESS ACCESS POINTS, ETC.
- IN ADDITION TO TRANSMITTING DATA, THE TWISTED-PAIR INJECTS POWER DOWN THE CABLE, ALLOWING A REMOTE POWER OVER ETHERNET DEVICE TO OPERATE WITHOUT THE NEED OF ANY ADDITIONAL POWER SOURCE.
- DDMCPI POWER OVER ETHERNET POWERED DEVICE IS IEEE 802. 3AF/AT COMPLAINT.
- DDMCPI ALSO FEATURES OPTIONAL 1000X SFP FIBER PORT FOR ANY KIND OF MSA-COMPLAINT PLUGGABLE 1.25GBPS SFP TRANSCEIVERS.
- THE DDMCPI SERIES CONVERTERS ARE FULLY COMPATIBLE WITH LONG PACKETS, ENABLING THEM TO BE USED IN MODERN NETWORKS

FEATURES

- UTP WITH POE TO FIBER MEDIA CONVERTER
- IEEE 802. 3AF/AT COMPLAINT
- RJ45 SUPPORT AUTO MDI/MDI-X FUNCTION AUTO-NEGOTIATION SPEED, HALF/FULL-DUPLEX
- STORE-AND-FORWARD & CUT-THROUGH (OPTIONAL)
- BUILT-IN LFP (LINK-FAULT-PASS-THROUGH)
- JUMBO FRAME:9K BYTES
- SUPPORT PD SIGNATURE SENSING. AFTER PSE AND PD SIGNATURE SENSING, THEN POE FUNCTION START TO WORK
- SUPPORT WIDE OPERATING TEMPERATURE (-40 TO +85°C)
- WIDE-RANGE REDUNDANT POWER DESIGN (12 TO 56VDC) 48V DC FOR POE APPLICATIONS
- REVERSE POLARITY PROTECTION FOR POWER INPUT
- OVERLOAD CURRENT RESETTABLE FUSE PRESENT
- PROVIDE EFT PROTECTION FOR POWER LINE
- SUPPORT ETHERNET ESD PROTECTION
- IP-40 INGRESS PROTECTION
- DIN-RAIL AND WALL-MOUNTED INSTALLATION

TECHNICAL SPECIFICATIONS

STANDARD

Standard	IEEE802. 3 10BaseT, IEEE802. 3u 100BaseT(X), IEEE802. 3x Flow control IEEE 802. 3af/at POE
Processing Type	Store and forward,
Back Plane	0.4Gbps
PoE Compliance Type	Mode A, End Span type Pin Out details: 1, 2, 3, 6 Data + Power Pin 1 : RX+, DC+, Pin 2 : RX-, DC+ Pin 3 : TX+, DC-, Pin 6 : TX-, DC-

PERFORMANCE

MAC Address Size	2Kbit
Packet Buffer Size	1Mbit
Time Delay	<10us
Frame	9k bytes
Data Rate	10/100M

ETHERNET PORT

Data Rate	155M
Connector	RJ45
Distance	100m

FIBER PORT

Connector	SC as default, FC/ST Optional
Type	Multi-mode: 2KM Single mode: 20Km to 100Km
DIP Switch	1 ON + 2 ON = Modified Cut-through Mode 1 ON + 2 OFF = Converter Mode 1 OFF + 2 ON = Cut-through 1 OFF + 2 OFF = Store and forward mode 4 ON = LFP Enable 4 Off = LFP Disable PWR1: ON = Power Connected PW R2: ON = Power Connected
LED Indicators	FL/A: ON = Fiber Connected, Active = Data Transmitting TL/A: ON = Copper Connected, Active = Data Transmitting 100M: ON = 100M Data Rate Transmitting POE: ON = Power Working, Off = No Power

POWER

Input Voltage	12 to 56V DC, Redundant Power input 48V DC for PoE Function
Power Consumption	≤5W
PoE Budget	15. 4W (PoE) 30W (PoE+)
Protection	Overload Current, Reverse Polarity
Connectors	Terminal Block

MECHANICAL

Housing	Aluminium Alloy, IP40 protection
Dimensions	115*81*35mm (H x D x W)
Weight	300g
Installation	DIN-Rail mounting, Wall mounting (Optional)

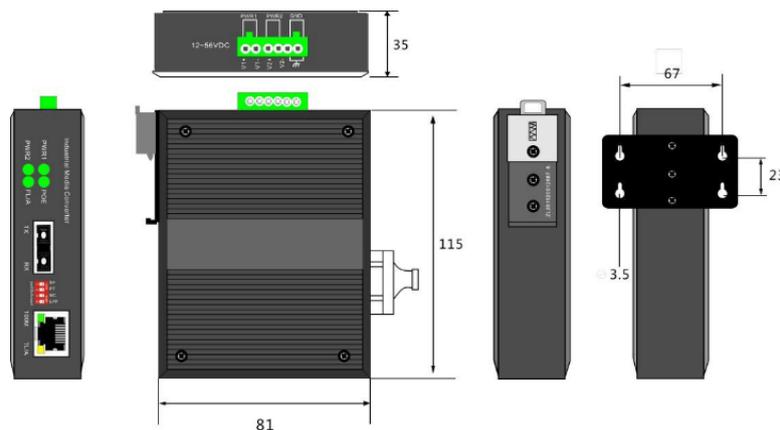
ENVIRONMENT

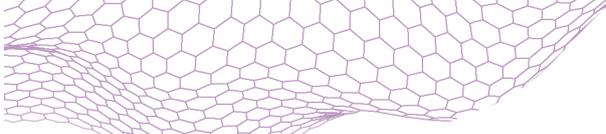
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95% (no condensation)

APPROVALS AND STANDARDS

EMS :	
EN61000-4-2	(ESD) Level 3, Criteria B
EN61000-4-3	(RS) Level 2, Criteria A
EN61000-4-4	(EFT) Level 3, Criteria A
EN61000-4-5	(Surge) Level 3, Criteria B/A
EN61000-4-6	(CS) Level 2, Criteria A
EN50121-4	Railway Traffic
IEC 60068-2-27	Shock
IEC 60068-2-320. 5m	Drop
IEC 60068-2-6	Vibrations
EMI	FCC Part15, CISPR (EN55032) Class A

PHYSICAL





ORDERING INFORMATION

DDMCPI M/SXXX SC/ST A

DDMCPI	Industrial Grade PoE Media Converter
M/SXXX	M: Multimode, S: Single Mode, XXX = 020, 040, 080, 100Kms (For Single mode)
SC / ST	SC = SC Connector, ST = ST Connector
A	Fixed

NOTE: 48V, Power supply has to be provided by user or to be ordered separately.



DATA BRIDGE
D Y N A M I C