



INDUSTRIAL GRADE FIBER TO ETHERNET MEDIA CONVERTER

DDMCI A SERIES



SYNOPSIS

- THE DDMCI A SERIES INDUSTRIAL MEDIA CONVERTERS PROVIDE CONVERSION BETWEEN 10/100BASET(X) AND 100BASEFX.
- CONNECTION OPTIONS INCLUDE MULTIMODE SC CONNECTOR (2KM), AND SINGLE MODE SC CONNECTOR (30KM). THE DDMCI A SERIES MEDIA CONVERTER IS DESIGNED FOR HARSH INDUSTRIAL ENVIRONMENTS.
- THE DDMCI A SERIES MEDIA CONVERTER ALSO PROVIDES AUTO MDI/MDI-X, AUTO NEGOTIATION, LINK FAULT PASS-THROUGH (LFP) FUNCTION, 5 PIN DIP SWITCH TO CONFIGURE THE FUNCTIONS AS THE TX_DUPLEX MODE, FX_DUPLEX MODE, SPEED MODE, LFP, AUTO NEGOTIATION.

TECHNICAL SPECIFICATIONS

STANDARD

IEEE	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards
IEEE	IEEE 802.3x Flow Control & Back Pressure

PERFORMANCE

Processing Type	Store and Forward, Cut-through
Back Bandwidth	0.4Gbps
MAC Address Size	2Kbit
Packet Buffer Size	1Mbit
Throughput	148810pps
Time Delay	<10us
Frame	Jumbo Packets, 9kbytes Support LFPT, Link Fault Pass Through
MTBF	823877 hrs

ETHERNET PORT

Data Rate	10/100 Mbps
Connector	RJ45
Distance	100m
Isolation	2KV

FIBER PORT

Speed	100BaseFX
Connector	SC
Type	Multi-mode: 2KM Single mode: 20Km to 100Km
Bit rate (Mbps)	155M
Wavelength(nm)	1310nm / Optional 1550nm > 20 Km
TX Power(dBm)	14 to -20 -3 to -13
RX Sens.(dBm)	<-31 <-35
LED Indicators	PWR1, PWR2, FL/A, TL/A, 100M, 10M

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
EMS	Shock, Drop, Vibrations
EMI	FCC Part15, CISPR (EN55032) Class A

POWER

Input Voltage	12 to 56V DC, Dual Supply Input
Power Consumption	Input Current : <= 3W
Connectors	Removable Screw Terminal Block, 5 Pin Reverse Polarity Protection, Overload Protection

MECHANICAL

Housing	Metal, IP30 protection
Dimensions	115*81*35mm (H x D x W)
Weight	300g
Installation	DIN-Rail mounting, Wall mounting (Optional)

OPERATING CONDITIONS

Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	5 to 95% (non-condensing)

DIP SWITCHES

Switch	Status	Function
1:	On	Pass through mode
	Off	Switch mode
2	On	Modified cut through mode
	Off	Store-and-forward mode
3	On	No available
	Off	/
4	On	Enable LFP function(default)
	Off	Disable LFP function



ORDERING INFORMATION

DDMCI M/SXXX SC/ST A

DDMCI	Industrial grade 10/100Base-TX to 100Base-FX 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