



INDUSTRIAL GRADE FIBER TO ETHERNET MEDIA CONVERTER-GIGA

DDMCIG SERIES



SYNOPSIS

- THE DDMCIG A SERIES INDUSTRIAL MEDIA CONVERTER IS DESIGNED TO EXTEND THE DISTANCE OF A NETWORK BY CONVERTING GIGA ETHERNET DATA BETWEEN TWISTED PAIR CABLING AND MULTI-MODE OR SINGLE MODE FIBER-OPTIC CABLES.
- THE DDMCIG A FEATURES 1 X 1000BASE-FX FIBER PORT AND 1 X 10 / 100 / 1000 BASE-T TWISTED-PAIR PORT.
- THE FIBER OPTIC PORT FEATURES SC CONNECTOR AND OPERATING DISTANCE FROM 550 TO 120KM DEPENDING ON DIFFERENT MODEL.
- THE TWISTED-PAIR PORT HAS 1 X RJ-45 CONNECTOR WITH A MAXIMUM OPERATING DISTANCE OF 100M.
- THE DDMCIG A INDUSTRIAL GIGABIT ETHERNET CONVERTER CAN FIND USE IN INDUSTRIAL AUTOMATION, OIL & GAS, MINING, TRAFFIC MANAGEMENT, SECURITY SURVEILLANCE ETC.

TECHNICAL SPECIFICATIONS

STANDARD	
Standard	IEEE802.3 10BaseT, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X standards IEEE802.3x Flow control
PERFORMANCE	
MAC Address Size	1Kbit
Packet Buffer Size	1Mbit
Time Delay	<10us
Frame	10k bytes
Processing Type	Store and forward
Backplane Bandwidth	4.0Gbps
RJ-45 port support auto MDI/MDI-X	
Auto-negotiation speed, Half/Full-duplex	
ETHERNET PORT	
Data Rate	10/100/1000M
Connector	RJ45
Distance	Cat3, 4, 5 10BASE-T, Cat5 100BASE-TX, Cat5e 1000BASE-T, UTP ≤100 meter

FIBER PORT

Data Rate	1000 Mbps
Connector	SC/ST
Distance	MMF 550m/2km SMF 20/40/80/100/120km
Cable	1310nm up to 40Km/ 1550 80Km to 120Km

LED INDICATOR

PWR1	ON=Power Connected
PWR2	ON= Power Connected
FL/A	ON=Fiber Connected
Active	Data Transmitting
TL/A	ON=Copper Connected Active= Data Transmitting

POWER

Input Voltage	12 to 56V DC, Redundant Power input 48V DC for PoE Function
Power Consumption	≤5W
Protection	Overload Current, Reverse Polarity EFT Protection for Power
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 +95°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
EN 61000-3-2: 2014	EMC-harmonic Current Emission
EN 61000-3-3: 2013	Limitation of voltage fluctuation
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
EMC	CE

ORDERING INFORMATION

DDMCIG M/SXXX SC/ST A

DDMCIG	Industrial Grade Giga 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