



INDUSTRIAL GRADE ETHERNET TO FIBER MEDIA CONVERTER-GIGA

DDMCIG SERIES



SYNOPSIS

- THE DDMCGI S CF IS AN INDUSTRIAL-GRADE 10/100/1000 MBPS MEDIA CONVERTER DESIGNED FOR RELIABLE ETHERNET-TO-FIBER COMMUNICATION
- IT IS EQUIPPED WITH ONE 10/100/1000BASE-T RJ45 PORT AND ONE 1000BASE-X SFP UPLINK PORT, ENABLING FLEXIBLE COPPER-TO-FIBER NETWORK DEPLOYMENT.
- DESIGNED FOR LOW POWER CONSUMPTION, PROVIDING HIGH RELIABILITY WITH AN MTBF OF UP TO 35 YEARS.
- THE DDMCGI S CF IS WELL SUITED FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS, INCLUDING TRANSPORTATION SYSTEMS (ITS), METRO NETWORKS, POWER AND UTILITY AUTOMATION

FEATURES & BENEFITS

- SUPPORTS A 10/100/1000BASE-T RJ45 PORT WITH A GIGABIT SFP UPLINK PORT, ENABLING FLEXIBLE COPPER-TO-FIBER NETWORK CONFIGURATIONS.
- PROVIDES NON-BLOCKING, WIRE-SPEED FORWARDING TO ENSURE HIGH-PERFORMANCE DATA TRANSMISSION.
- SUPPORTS FULL-DUPLEX OPERATION WITH IEEE 802.3X FLOW CONTROL AND HALF-DUPLEX OPERATION WITH BACKPRESSURE, ENSURING RELIABLE TRAFFIC MANAGEMENT.
- FEATURES A WIDE DC POWER INPUT RANGE OF 12 - 57 VDC.
- THE DEVICE FEATURES AN IP40 PROTECTION RATING
- EQUIPPED WITH INDUSTRIAL-GRADE DUAL REDUNDANT POWER INPUTS FOR ENHANCED SYSTEM RELIABILITY AND AVAILABILITY.

TECHNICAL SPECIFICATIONS

Fixed Port	1* 10/ 100/1000Base-TX RJ45 port 1* 1000Base-X uplink SC port
Ethernet Port	10/ 100/1000Base-TX autosensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T : Cat3,4,5 UTP (≤100 meter) 100BASE-T : Cat5e or later UTP (≤100 meter) 1000BASE-T : Cat5e or later UTP (≤100 meter)
SFP Slot Port	Gigabit SFP optical Fiber interface
Wavelength/Distance	Multimode: 850nm 0 to 550M & 1310nm 0 to 2KM Single mode: 1310nm 0 to 40KM & 1550nm 0 to 120KM

CHIP PARAMETER

Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3u 100Base-SX, IEEE802.3x, IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	4Gbps
Buffer Memory	2.98Mpps
MAC	8K
LED Indicator	Power Indicator, Fiber Indicator, Network Status,

POWER

Power supply	Dual DC12 - 57V, Reverse Polarity protection
Power Consumption	Standby<3W, Full load<6W

PHYSICAL CHARACTERISTICS

Dimension (L*W*H)	116mm* 86.5mm*32.5mm
Installation	Desktop, DIN rail

ENVIRONMENT

Working Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5% to 90% (no condensation)
Storage Humidity	5% to 95% (no condensation)

ORDERING CODE

DDMCIG S CF

DDMCIG	Industrial Grade Ethernet to Fiber Giga Media Converter
S	Gigabit SFP optical Fiber interface
CF	Fixed

NOTE: SFP MODULE NEED TO ORDER SEPEERATELY.