



INDUSTRIAL GRADE 10/100/1000BASE TX TO 100/1000BASE-FX MEDIA CONVERTER

DDMCIG SERIES



SYNOPSIS

- THE DDMCIG WT SERIES IS INDUSTRIAL-GRADE MEDIA CONVERTERS WITH 1* 10/100/1000BASE-T (RJ45) PORT AND 1* 100/1000BASE-X FIBER INTERFACE.
- DESIGNED WITH HIGH-LEVEL EMI/EMC IMMUNITY, THESE CONVERTERS ENSURE RELIABLE PERFORMANCE IN HARSH INDUSTRIAL ENVIRONMENT.
- THEY ARE WELL-SUITED FOR APPLICATIONS SUCH AS INDUSTRIAL AUTOMATION, TRANSPORTATION SYSTEMS, OIL & GAS, AND IP SURVEILLANCE.

FEATURES

- 1 × 10/100/1000BASE-T (RJ45) PORT AND 1 × 100/1000BASE-X FIBER PORT WITH SFP SLOT (SC/ST/FC CONNECTOR AS OPTIONS).
- WIDE-RANGE DC POWER INPUT FROM 12V TO 58V WITH REDUNDANT POWER SUPPLY AND REVERSE POLARITY PROTECTION.
- DIP SWITCH FOR
 1. LINK FAULT PASS-THROUGH (LFP)
 2. FLOW CONTROL
 3. BROADCAST STORM PROTECTION
 4. FIBER PORT SPEED SELECTION (100/1000 MBPS)
- JUMBO FRAMES UP TO 10 KB, 1 MB PACKET BUFFER FOR ENHANCED DATA HANDLING.
- SUPPORTS VLAN-TAGGED PACKET TRANSMISSION WITH VLAN ID FROM 1 TO 4096.
- WATCHDOG FUNCTION FOR IMPROVED SYSTEM RELIABILITY.
- 4 KV SURGE PROTECTION AND ESD PROTECTION (AIR: 15 KV, CONTACT: 8 KV).
- IP40, FAN-LESS ENCLOSURE AND DIN-RAIL MOUNTING
- COMPACT FORM FACTOR (30 × 85 × 85 MM)
- EXTENDED TEMPERATURE RANGE OF -40°C TO +75°C

TECHNICAL SPECIFICATIONS

Fixed Port	1*10/100/1000Base-T RJ45 1*100/1000Base-X SFP (SC/ST/FC optional)
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet
DIP Switch	1. LFP 2. Flow control 3. Broadcast Storm restrain 4. Fiber port 100/1000M selection
LED Indicator	Power, System, RJ45 Port, Fiber port
MTBF	500,000 hours

SWITCHING FEATURES

Switching capacity	2G
Packet forwarding rate	2.97Mpps
MAC address table	8K
VLAN	Support the transmission of the packets with VLAN tags from 1 to 4096
Buffer	1M
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support

POWER

Input Voltage	Dual 12-58VDC, Redundant Power Input
Input Current	0.2A Max
Total Power consumption	≤2W
Connector	4-pin terminal block
Reverse Polarity Protection	Support

PHYSICAL CHARACTERISTICS

Dimension(W*D*H) mm	30*85*85mm
Installation	Din-rail
Case protection	IP40
Weight	0.2 kg

ENVIRONMENT

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

APPROVAL AND STANDARD TESTED FOR

IEC 61000-4-2	ESD Level 4 (8K/15K)
IEC61000-4-5	Surge Protection of Power Level 3 (4KV/2KV) (8/20us) Surge Protection of Ethernet Ports Level 3 (4KV/2KV) (10/700us)
IEC61000-4-11	DIP Level 3 (10V)
IEC 60068-2-27	Shock
IEC 60068-2-32	Free fall
IEC 60068-2-6	Vibration

ORDERING CODE

DDMCIG M/SXXX YY S WT

DDMCIG	10/100/1000Base-T to 1000Base-X compact Industrial Media Converter
M/SXXX	M: Multimode (wavelength 850nm up to 550m) S: Single Mode, XXX = 020, 040, 080, 100Kms (Wavelength 1310nm for 20km)
YY	SC: SC Connector ST: ST Connector
S	SFP Slot (Optional)
WT	Fixed

SAMPLE ORDERING CODE

DDMCIG S020 SC WT	10/100/1000Base-T to 1000Base-X compact Industrial Media converter, Single Mode 20Km SC Connector.
DDMCIG S WT	10/100/1000Base-T to 1000Base-X compact Industrial Media converter with SFP Slot