

INDUSTRIAL GRADE 2 PORT 10/100/1000BASE TX TO 2 PORT 100/1000BASE-FX MEDIA CONVERTER

DDMCIG 2 SERIES



SYNOPSIS

- THE DATABRIDGE DDMCIG 2 ST IS AN UNMANAGED, COMPACT, INDUSTRIAL-GRADE MEDIA CONVERTER EQUIPPED WITH 2* 10/100/1000BASE-TX RJ45 ETHERNET PORTS AND 2* 100/1000BASE-FX FIBER-OPTIC INTERFACES.
- THE DDMCIG 2 ST IS A COST-EFFECTIVE AND EASY-TO-DEPLOY SOLUTION
- THIS MEDIA CONVERTER IS IDEALLY SUITED FOR HARSH INDUSTRIAL ENVIRONMENTS, INCLUDING MANUFACTURING PLANTS, TRANSPORTATION SYSTEMS, OIL AND GAS FACILITIES, CHEMICAL PROCESSING, IP SURVEILLANCE, AND INDUSTRIAL AUTOMATION APPLICATIONS.

FEATURES & BENEFITS

- EQUIPPED WITH 2 × 10/100/1000BASE-TX RJ45 ETHERNET PORTS AND 2 × 100/1000BASE-FX SFP FIBER PORTS FOR FLEXIBLE NETWORK CONNECTIVITY.
- IT SUPPORTS A WIDE DC POWER INPUT RANGE OF 12–58 VDC, WITH REDUNDANT POWER INPUTS AND REVERSE POLARITY PROTECTION TO ENSURE RELIABLE OPERATION.
- INTEGRATED DIP SWITCH CONFIGURATION ENABLES ADVANCED FUNCTIONS INCLUDING FIBER LINK REDUNDANCY, IEEE 802.3X FLOW CONTROL, BROADCAST STORM SUPPRESSION, AND 10 KB JUMBO FRAME SUPPORT.
- PROVIDES A 1MB PACKET BUFFER TO ENSURE STABLE DATA FORWARDING UNDER HIGH TRAFFIC CONDITIONS.
- BUILT-IN 4 KV SURGE PROTECTION WITH ESD IMMUNITY RATED AT ±15 KV (AIR DISCHARGE) AND ±8 KV (CONTACT DISCHARGE) FOR ENHANCED ELECTROMAGNETIC PROTECTION.
- THE DEVICE FEATURES A RUGGED, FAN-LESS IP40-RATED COMPACT ENCLOSURE.
- IT IS PROVIDED IN DIN RAIL MOUNT.
- IT IS DESIGNED FOR WIDE OPERATING TEMPERATURES FROM –40°C TO 75°C AND PROVIDES HIGH IMMUNITY TO EMI/EMC INTERFERENCE.

TECHNICAL SPECIFICATIONS

Fixed Port	2 * 10/100/1000Base-TX RJ45 2 * 100/1000Base-FX SFP
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. Fiber Redundant 2. Flow control 3. Broadcast Storm restrain 4. Fiber ports 100/1000M selection
LED Indicator	Power Indicator, System Indicator, 1-2(Copper ports) 3-4 (Fiber ports)
MTBF	> 200,000 hours

SWITCHING FEATURES

Switching capacity	8G
Packet forwarding rate	11.9Mpps
MAC address table	8K
VLAN	4K
Buffer	1M
Forwarding delay	<10us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

NETWORK TOPOLOGY

Star topology	Support
Bus topology	Support
Tree Topology	Support

POWER

Input Voltage	Dual 12-58VDC, Redundant Power Input
Input Current	0.3A Max
Total Power consumption	Full loading ≤3W
Connector	Removable 4-pin terminal block
Reverse Polarity Protection	Support

PHYSICAL CHARACTERISTICS

Dimension(W*D*H) mm	30*85*85mm
Installation method	Din-rail
Case protection	IP40
Weight	0.22 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 2 M/SXXX YY ST

DDMCIG 2	Industrial Media Converter with 2*10/100/1000Base-TX RJ45 ports and 2*100/1000Base-FX SFP slots
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
ST	Fixed

SAMPLE ORDERING CODE

DDMCIG 2 M ST ST	Industrial Media Converter with 2*10/100/1000Base-TX RJ45 ports and 2*100/1000Base-FX SFP slots, Multimode with ST connector
DDMCIG 2 S020 SC ST	Industrial Media Converter with 2*10/100/1000Base-TX RJ45 ports and 2*100/1000Base-FX SFP slots, Singlemode-20Km with SC connector