

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

DDMCI 2 SERIES



SYNOPSIS

- THE DATABRIDGE DDMCI 2 ST IS AN UNMANAGED, COMPACT, INDUSTRIAL-GRADE MEDIA CONVERTER EQUIPPED WITH 2* 10/100BASE-TX RJ45 ETHERNET PORTS AND 2* 100BASE-FX FIBER-OPTIC INTERFACES.
- THE DDMCI 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 × 10/100BASE-TX RJ45 ETHERNET PORTS AND 2 × 100BASE-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 * 10/100Base-TX RJ45 2 * 100Base-FX SFP
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast 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. 10K Bytes Jumbo frame
LED Indicator	Power Indicator, System Indicator, 1-2(Copper ports) 3-4 (Fiber ports)
MTBF	> 200,000 hours

SWITCHING FEATURES

Switching capacity	0.8G
Packet forwarding rate	1.9 Mpps
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

DDMCI 2 M/SXXX YY ST

DDMCI 2	Industrial Media Converter with 2*10/100Base-TX RJ45 ports and 2*100Base-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

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