



RS485 ISOLATOR REPEATER

RS485 2 TO 4 WIRE & RS485 TO RS422 CONVERTER

DDIR SERIES



SYNOPSIS

- DDIR IS USED TO EXPAND LINE DRIVING CAPABILITY OF RS485 / RS422 BEYOND 1.2 KM.
- IT ALSO CONVERTS RS485 TO RS422 (AND VICA VERSA).
- IT CAN ALSO BE USED AS RS485 ISOLATOR.
- THEY ARE USED FOR PROVIDING ISOLATION TO SERIAL INTERFACE.
- WITH HIGH DEGREE OF PROTECTION, IT KEEPS THE COM PORT OF YOUR EQUIPMENT SAFE.

SPECIFICATIONS

COMMUNICATION

Input/Output	RS422, RS485 4 wire / 2 Wire
Speed	1200bps to 115 Kbps
Cable Distance	1.2Km on both sides @ 9600bps
Cable Impedance	90Ω/km
LED Indications	TX, RX & Power ON

MECHANICAL

Connector	Input, Power, Output : Screw type Terminal blocks
Enclosure	ABS, DIN Rail Mounting
Dimensions	45mm L x 110mm D x 75mm H

PROTECTION

Isolation Method	Power to Input, Power to Output & Input to Output
Optical Isolation	3000 V DC
Galvanic Isolation	3000 V DC
ESD Protection	15KV on all Data lines
Surge Protection	4KV Lightning / Surge Protection 600W on all Data lines

POWER

Power Supply	230V AC. Range 110 to 270 V AC, 50 Hz 24V DC. Range +/- 10% 48V DC. Wide Range 18 to 72V DC
Protection	Short Circuit, Reverse Polarity (for DC Input)
Power Consumption	1.2 watts

OPERATING CONDITIONS

Operating Temperature	0 - 65° C
Relative Humidity	5 – 95 % - non-condensing

ORDERING CODE

DDIR XXX

DDIR	Databridge Dynamic Isolator Repeater	
XXX	24	24V DC
	48	48V DC (18 to 72V DC)
	110	110V DC
	230	230V AC (90 to 260V AC)