



4 PORT RS232 ISOLATED HUB CONVERTER

DDSH SERIES



SYNOPSIS

- DDSH 4 232 S IS A DIN-RAIL-MOUNTED, FOUR-PORT ISOLATED RS-232 HUB CONVERTER DESIGNED TO SUPPORT BIDIRECTIONAL TRANSPARENT COMMUNICATION BETWEEN ONE RS-232 MASTER DEVICE AND UP TO FOUR RS-232 SLAVE DEVICES.
- IT ENABLES A SINGLE SERIAL PORT DEVICE TO COMMUNICATE WITH MULTIPLE SERIAL DEVICES IN A MASTER-SLAVE CONFIGURATION.
- THE PRODUCT IS EQUIPPED WITH ONE RS-232 MASTER PORT AND FOUR RS-232 SLAVE PORTS, AND SUPPORTS A WIDE POWER INPUT RANGE OF DC 5 V OR DC 9–30 V.
- ITS STANDARD DIN-RAIL MOUNTING DESIGN MAKES IT WELL SUITED FOR DIVERSE INDUSTRIAL BUS APPLICATIONS.
- BY PROVIDING AN RS-232 STAR TOPOLOGY, THE DEVICE REPLACES THE TRADITIONAL POINT-TO-POINT ARCHITECTURE, SIGNIFICANTLY SIMPLIFYING NETWORK LAYOUT AND SYSTEM EXPANSION
- THE HARDWARE FEATURES A FANLESS, LOW-POWER DESIGN AND SUPPORTS AN EXTENDED OPERATING TEMPERATURE RANGE OF -40°C TO $+85^{\circ}\text{C}$, ENSURING RELIABLE OPERATION IN HARSH INDUSTRIAL ENVIRONMENTS.
- THE DDSH 4 232 S IS SUITABLE FOR BOTH INDOOR AND OUTDOOR SERIAL FIELD-BUS SYSTEMS AND A WIDE RANGE OF INDUSTRIAL COMMUNICATION APPLICATIONS.

FEATURES

- SUPPORT MUTUAL CONVERSION BETWEEN 1 MASTER STATION RS232 AND 4 RS232 SLAVE STATIONS.
- SUPPORTS BAUD RATES FROM 300 BPS TO 115,200 BPS.
- EQUIPPED WITH A COMPREHENSIVE FAULT-TOLERANT MECHANISM, ENSURING THAT FAILURE OF ONE NODE DOES NOT AFFECT THE OPERATION OF OTHER NODES.
- PROVIDES 15 KV ESD PROTECTION AND 600 W/MS SURGE (LIGHTNING) PROTECTION, WITH 2.5 KV OPTICAL ISOLATION BETWEEN THE MASTER AND SLAVE STATIONS.
- SUPPORTS DC 5 V OR DC 9–30 V POWER INPUT.
- DESIGNED FOR RELIABLE OPERATION IN HARSH INDUSTRIAL ENVIRONMENTS WITH AN OPERATING TEMPERATURE RANGE OF -40°C TO $+85^{\circ}\text{C}$

TECHNICAL SPECIFICATIONS

SERIAL PORT

Standard	Complies with EIA RS232 standard	
Number of interfaces	1 Master station RS232 and 4 Slave station RS232	
RS232 signal	TX, RX, And GND	
Baud Rate	300bps-115200bps	
Connection method	10-Position 5.08mm Pitch Terminal block	
Interface Protection	Electrostatic Protection	: 15kV
	Lightning Protection	: 600W/ms
	Photoelectric isolation	: 2.5kV

LED INDICATOR

Status LED	Power Indicator Serial port sending data indicator, Serial port receiving data indicator
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POWER

Input Voltage	DC5V or DC9 to 30V
Current	20mA
Connection	10-position 5.08mm pitch Terminal block, 3 positions for power supply

MECHANICAL

Dimensions	103*72*34(mm) (DIN Rail mounting clip Excluded)
Installations	Easy installation on 35mm DIN rails
Weight	0.13kg

ENVIRONMENTAL

Operating Temp	-40°C to +85°C
Storage Temp	-40°C to +85°C
Relative Humidity	5% to 95% (non-condensing)

ORDERING CODE

DDSH 4 232 S

DDSH	Databridge Dynamic Serial Hub
4	4 Port
232	RS232 Port
S	Fixed