



INDUSTRIAL RS-232 TO RS-422 / 485 ISOLATED RAIL CONVERTER VDI INC1R21R4

OVERVIEW

The standard RS-232 protocol has been widely used in most of industrial computer systems for serial port communication. However, it has its limitations in transmission speed, range, and networking capabilities. The RS-422 and RS-485 standard protocols, on the other hand, overcomes the limitations mentioned above by utilizing different voltage lines for data and control signals.



SPECIFICATION

INTERFACE

Input:	RS-232
Output:	RS-422/485 (jumper selectable) Max. multidrop supported: 256 modules (without repeaters)
Isolation Protection:	VDI INC1R21R4-3000V at RS-232 end
Communication Distance:	2.1 km/9600 bps, 2.7 km/4800 bps, 3.6 km/2400 bps
Reverse Polarity Protection:	Present

PERFORMANCE

Speed:	"AutoPro» auto-switches baud rates from 300 to 115200 bps
--------	---

POWER REQUIREMENTS

Power Input:	10 to 30 VDC
Power Consumption:	2.2W (max.) power supply not included

MECHANICAL

Dimensions:	70 mm (W) x 10 mm (H) x 20 mm (D)
-------------	-----------------------------------

ENVIRONMENTAL

Operating Temperature:	-25 ~ 75°C (-13 ~ 167°F)
Operating Humidity:	5% to 90% (non-condensing)
Storage Temperature:	-40 ~ 80°C (-40 ~ 176°F)

REGULATORY APPROVALS

EMI:	FCC, CE
warranty:	2 years

PART NUMBER

PART NUMBER	DESCRIPTION
VDI INC1R21R4	Industrial RS-232 to RS-422 / 485 Isolated Rail Converter