

INTERFACE CONVERTERS

USB to RS232 / RS485 / RS422 Converter

RS232 to RS485 / RS422 Converter

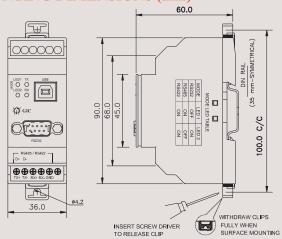
USB to RS232 / RS485 / RS422 Converter

- Compatible with USB 2.0
- Input : USB 2.0 Protocol
- Output: RS232 on DB9 Male connector compatible to PC RS485/RS422 on terminal block.
- Communication Speed: 300bps to 230Kbps.
- Auto direction control for RS485- 2W data transmission.
- Cable: USB 2.0 type A to type B cable.
- Galvanic Isolation of 1.5kV
- RS232/RS485 line protection: +/- 15kV ESD.
- LED Indication for Transmit Receive signals.
- Input power from USB port, no external power required.
- 2M enclosure with DIN Rail mounting.
- Virtual COM port USB Drivers provided for Win XP, Vista, Win7



Cat. No.	28A11A0		
Parameters			
USB			
Version	USB Specification 2.0 compliant		
Speed	12 Mbps		
Isolated Serial Interface			
RS232	TX, RX,GND		
RS485	D+, D-, GND		
RS422	TX+, TX-, RX+, RX-, GND		
Auto direction control for RS485-2W			
Serial line Protection	Internal 15kV ESD protection		
Isolation	1500 V Galvanic Isolation		
Connector	RS232 - D Type 9 Pin Male Compatible with PC, RS485, RS422- Terminals		
LED Indication	TX, RX, Communication Mode Indication.		
Power Requirements	USB BUS Powered		
Operating Temperature	-20° C To $+70^{\circ}$ C		
Storage Temperature	-25° C To $+70^{\circ}$ C		
Humidity	95% (Rh)		
Enclosure	Flame Retardant UL 94-V0		
Dimension (W x H x D) (in mm)	36 X 90 X 52.3		
Weight (unpacked)	120 g		
Mounting	Base / DIN rail		
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure		
Certification	CE ROIS Compliant		
Function and Application	This converter allows serial devices on RS232/RS485/RS422 to systems using USB interface. It has galvanic isolation of 1500V between USB and Serial ports. It drives power from USB connector and does not need any power adapter.		
EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibilty Electrical Fast Transients Surges Conducted Susceptibilty Conducted Emission Radiated Emission	IEC 61000-3-2 Ed. 3.0 (2005-11) Class A IEC 61000-4-2 Ed. 1.2 (2001-04) Level II IEC 61000-4-3 Ed. 3.0 (2006-02) Level III IEC 61000-4-5 Ed. 2.0 (2004-07) Level I IEC 61000-4-5 Ed. 2.0 (2005-11) Level I IEC 61000-4-6 Ed. 2.2 (2006-05) Level II CISPR 14-1 Ed. 5.0 (2005-11) Class A CISPR 14-1 Ed. 5.0 (2005-11) Class A		
Environmental Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock	IEC 60068-2-1 Ed. 6.0 (2007-03) IEC 60068-2-2 Ed. 5.0 (2007-07) IEC 60068-2-6 Ed. 7.0 (2007-12) 5g IEC 60068-2-27 Ed. 4.0 (2008-02) 40g, 6ms IEC 60068-2-27 Ed. 4.0 (2008-02) 30g, 15ms		

MOUNTING DIMENSIONS (mm)



ORDERING INFORMATION

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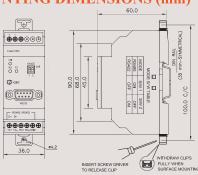
RS232 to RS485 / RS 422 Converter

- Isolated RS485/RS422 on terminal block.RS232 with DB9 Female connector
- Auto direction control for RS485-2W transmission.
- Galvanic Isolation of 1500V for RS485/RS422.
- · Supports Baud rate up to 250Kbps.
- Internal 15 kV ESD protection both RS232 and RS485/RS422.
- LED Indication for Transmit, Receive signal communication traffic.
- Input power supply range 9-35V DC.
 2M enclosure with DIN Rail mounting.



Cat. No.	28B21A0		
Parameters			
RS232 Port			
Connector	D type 9 pin Female		
Serial line protection	Internal 15 kV ESD		
Isolated RS485/RS422 Port			
No. of Ports	1		
RS422	TX+, TX-, RX+, RX		
RS485	D+, D		
Serial line Protection	15kV ESD		
Serial Communication Parameter			
Isolation	1500 V Galvanic		
Parity	None, Even, Odd, Space, Mark		
Data Bits	5,6,7,8		
Stop Bits	1,1,5,2		
Flow Control	None, XON/XOFF,		
Speed	None, AON/AOFF, 300 bps/Kbps to 250 bps/Kbps		
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LED Indication	TX, RX LED indication		
Input Supply Voltage	9- 35VDC		
Power Consumption	2W		
Operating Temperature Storage Temperature	-20° C To + 70° C -25° C To + 70° C		
Humidity	95% (Rh)		
Enclosure	Flame Retardant UL 94-V0		
Dimension (W x H x D) (in mm)	36 X 90 X 52.3		
Weight (unpacked)	100 g		
Mounting	Base / DIN rail		
Degree of Protection	IP 20 for Terminals, IP 40 for Enclosure		
Certification	CE Vertis Compliant		
Function and Application	This converter allows to interface any device using RS232 serial link to RS485/RS422 link. The RS485 specification allows to network up to 32 stations on the same lines, at speeds up to 10 Mbps to distances of 4,000 feet (1200 meters). RS485/RS422 links are much used in industrial process control where reliability is important.		
EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibilty Electrical Fast Transients Surges Conducted Susceptibilty Voltage Dips & Interruptions (DC) Conducted Emission Radiated Emission	IEC 61000-4-2 Ed. IEC 61000-4-3 Ed. IEC 61000-4-4 Ed. IEC 61000-4-5 Ed. IEC 61000-4-6 Ed. IEC 61000-4-29 Ed. CISPR 14-1 Ed.	. 3.0 (2005-11) Class A . 1.2 (2001-04) Level IV . 3.0 (2006-02) Level III . 2.0 (2004-07) Level III . 2.0 (2005-11) Level III . 2.2 (2006-05) Level III . 2.0 (2004-03) All 7 Levels . 5.0 (2005-11) Class A . 5.0 (2005-11) Class A	
Environmental Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock	IEC 60068-2-2 Ed. IEC 60068-2-6 Ed. IEC 60068-2-27 Ed.	. 6.0 (2007-03) . 5.0 (2007-07) . 7.0 (2007-12) 5g . 4.0 (2008-02) 40g, 6ms . 4.0 (2008-02) 30g, 15ms	

MOUNTING DIMENSIONS (mm)



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28B21A0 RS 232 to RS485/RS422 CONVERTER