



STD1918H Series

RS-232 to RS-422/485 Media Converter



Introduction

SUNIX STD-1918H advanced media converter provides serial interface exchange between RS-232 to RS-422/485 and vice-versa. RS-232 hardware is a popular used and easy design interface in today's industrial environment and commercial application. However the drawback of RS-232 is the point to point characteristic and a distance limitation of 15 meters, SUNIX converter provides an ideal solution for extending RS-232 transmission distance and increasing networking capability. Users can use RS-232 devices to connect to an industrial RS-422 or RS-485 network and increase transmit data up to 1.2 kilometer by using a differential signal and multi-drop connections.

Features

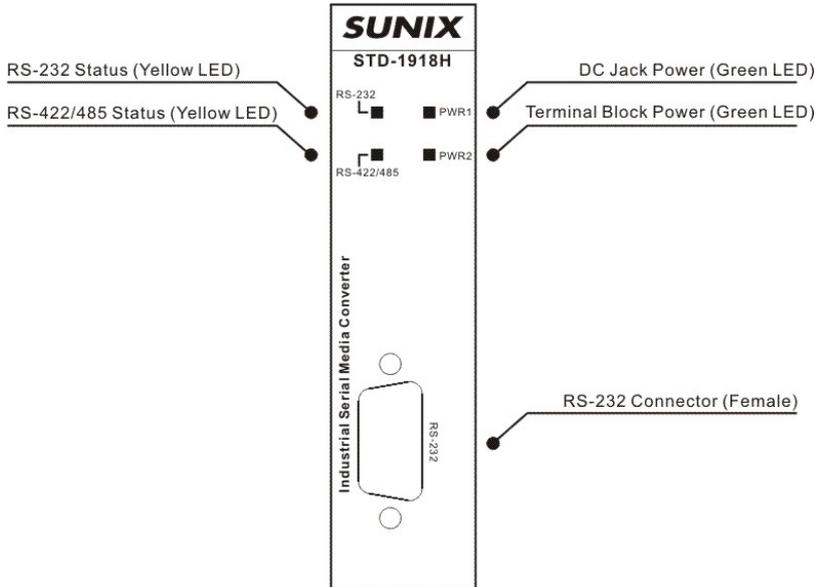
- Industrial grade design for stability and reliability
- RS-232 to RS-422/485 converter with RTS+/- CTS+/- support
- Embedded ESD surge protection built-in
- Protect against electronic degradation and chemical corrosion
- Supports baud rate up to 921.6 Kbps with auto baud rate detection
- 12V DC Jack & External power 12~48V DC terminal block with reverse polarity protection
- Detachable wall and din-rail mounting kit design
- Plug-n-play & compact size designed

Specifications

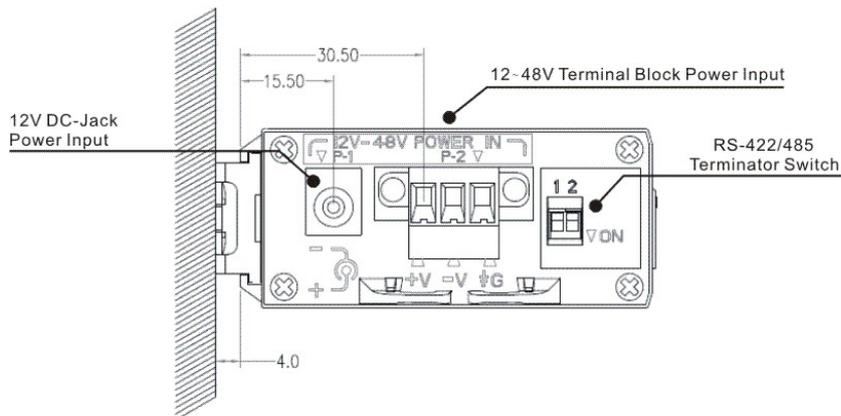
Interface	Port 1	RS-232(DB9) Female
	Port 2	RS-422/485 (9-pin Terminal Block)
Communication	Distance	1.2km (RS-422/485)
	Serial baud Rate	50 bps up to 460.8 Kbps
	RS-232 signals	TxD, RxD, RTS, CTS, GND
	RS-422/485 signals	RS-232 : RxD, TxD, RTS, CTS, GND RS-422 : TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND RS-485 : TxD+/Data+, TxD-/Data-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND
	RS-422/485 switch	Auto Identify and Switch RS-422 & RS-485
	RS-485 Control	RS-485 Auto Hardware Direction Control / Carrier Sense : AHDC/CSTM
	Power	Redundancy
Connector		3-pin Removable Terminal Block + DC Jack
Consumption		1A @ 12VDC
Input		12~48 VDC (24 VDC)
Protection		Embedded ± 15 KV ESD protection 400W Surge Protection for all signals (STD-1918H-SI only) 2.5KV Optical Isolation Protection (STD-1918H-SI only)
Power Reverse		Present
Mounting Options		DIN Rail and Wall Mountable
Regulatory Approvals		FCC Part 15, CISPR (EN55022) Class B, CE
Environment	Operation Temperature	0°C to 70°C
	Operation Humidity	5 to 95% RH
	Storage Temperature	Standard 0 ~ 60 °C / Extend -40 ~ 80 °C
Casing		Present Aluminum (IP30)
Dimensions		30 x 68.5 x 105 mm (W x D x H)

Mechanical Drawings

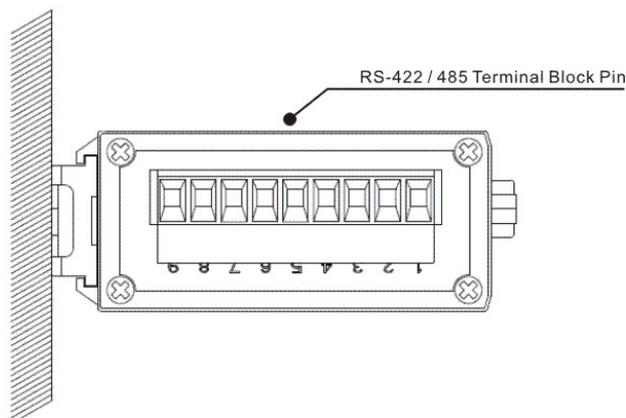
Front View



Top View



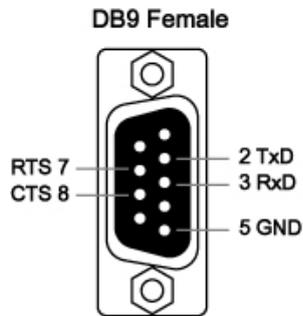
Bottom



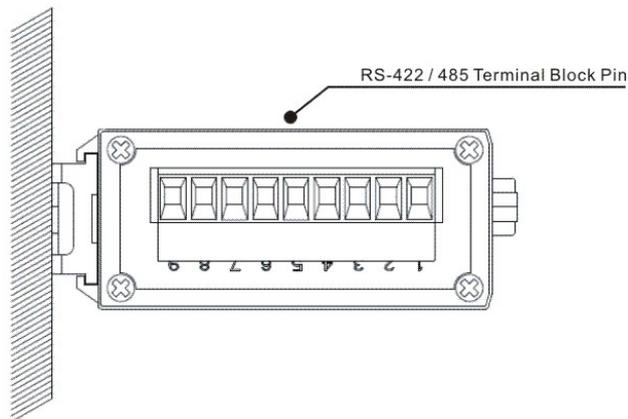
View

Pin Assignment

■ RS-232



■ RS-422/485



Mode	Pin-1	Pin-2	Pin-3	Pin-4	Pin-5	Pin-6	Pin-7	Pin-8	Pin-9
RS-422	TxD+	TxD-	RxD+	RxD-	RTS+	RTS-	CTS+	CTS-	GND
RS-485	TxD+ / Data+	TxD- / Data-	RxD+	RxD-	RTS+	RTS-	CTS+	CTS-	GND

Optional Accessories

Standard Accessories

1. RS-232 to RS-422/485 media converter
2. DIN Rail Kit
3. Hardware Quick Installation Guide
4. SUNIX Warranty Card



Optional Accessories

1. Power Adapter 12V / 1A, 2.1mm, 
2. Wall Mount Kit

· Wall Mounting



· Din-Rail



Ordering Information

- ◆ STD-1918H RS-232 to RS-422/485 Media Converter
- ◆ STD1918H-SI RS-232 to 422/485 Media Converter with Surge& Isolation