

# MedIO STD1918

## RS-232 to RS-422/485 Converter



### Features



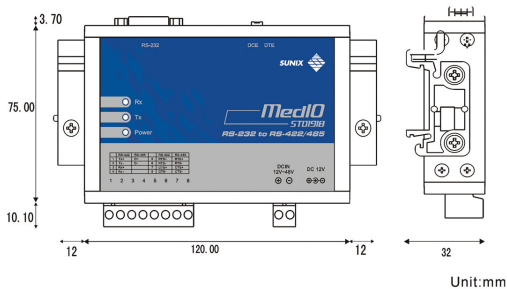
- **RS-232 to RS-422/485 converter with RTS+/- CTS+/- support**
- **Supports baud rate up to 460 Kbps**
- **Auto Identify and Switch RS-422 and RS-485 technology makes jumper free**
- **Supports RS-485 Auto RTS Signal Control (ARSC™) technology**
- **Detachable Wall and DIN-Rail mounting kit design**
- **Plug-in screw terminal block for easy RS-422/485 wiring**
- **DIP-switch configuration of DTE or DCE setting for easy connection of devices**
- **Redundant power 12~48V terminal block & DC jack input**
- **Optional 2.5KV optical isolation and 600W surge protection**

### Overview

SUNIX STD1918 high technology 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. Because the drawback is that RS-232 is a point to point characteristic and a distance limitation only 15 meters,

this 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.

### Dimensions



## Specifications

### Serial Communication

<b>Connector</b>	RS-232 : DB9M RS-422/485 : Terminal Block
<b>Signal</b>	RS-232 : Rx, Tx, GND, RTS, CTS RS-422 : Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS- RS-485 : Data+, Data-, RTS+, RTS-, CTS+, CTS-
<b>RS-422 / 485</b>	RS-422/485 Auto Identify & Switch
<b>DTE/DCE</b>	RS-232 DTE / DCE DIP switch
<b>Network</b>	RS-422 up to 10 nodes, 1.2KM RS-485 up to 32 nodes, 1.2KM
<b>RS-485</b>	Auto RTS Signal Control: ARSCTM
<b>Baud Rate</b>	RS-232 up to 460.8 Kbps RS-422 up to 115.2 Kbps RS-485 up to 460.8 Kbps
<b>Protection</b>	<b>Standard:</b> 15KV ESD Surge Protection for all signal <b>Optional:</b> 2.5KV Isolation Protection for all signal 600W Surge Protection for all signal *Maximum clamping voltage 24.4 V *Peak pulse current 24.6 A
<b>LED</b>	Power, Rx/D for RS-232, Tx/D for RS-232

### Power

<b>Input Power</b>	12~48 VDC External Power, Terminal Block & DC Jack type (Redundant Power Input)
<b>Protection</b>	Reverse Power Protection (Protects against V+ & V- reverse)

**Power Consumption** < 2.4W=12V x 200mA

### Mechanical

<b>Dimensions (WxDxH)</b>	189 x 106 x 40 mm (with Mounting Kit)
<b>Case</b>	Metallic Casing & Hard Plastic
<b>Weight</b>	250 ± 5 g
<b>Approvals</b>	CE, FCC(Class B)

### Environment

<b>Operating Temperature</b>	0°C ~ 60°C
<b>Storage Temperature</b>	-20°C ~ 85°C
<b>Humidity</b>	5 ~ 95% RH

## Pin Assignment

### RS-232



### RS-422/485



	RS-422	RS-485	RS-422	RS-485
1	TX+	D+	5	RTS+
2	TX-	D-	6	RTS-
3	RX+		7	CTS+
4	RX-		8	CTS-

## Order Information

STD1918	RS-232 to RS-422/485 Converter
STD1918S	RS-232 to RS-422/485 Converter with Surge
STD1918I	RS-232 to RS-422/485 Converter with Isolation
STD1918SI	RS-232 to RS-422/485 Converter with Surge & Isolation

## Packing List

1. RS-232 to RS-422/485 Converter
2. Quick Installation Guide

## Optional Accessories

1. Power Adapter 12V / 1A,
2. Wall Mount Kit
3. DIN-Rail Mount Kit
4. Rubber foot stub / Screw

