



RUS-9520A

Features

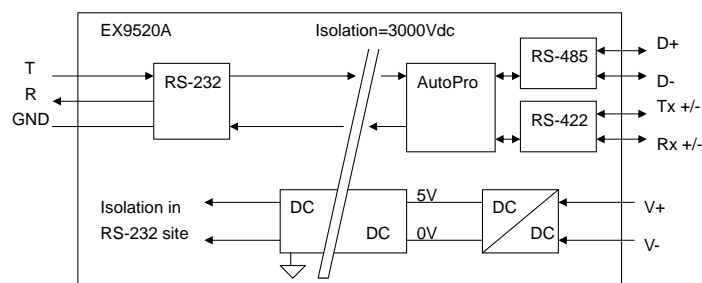
- ✓ **High Performance Design**
 - ✓ Converts RS-232 to RS-422/485
 - ✓ Automatic internal RS-422/485 baud rate control
 - ✓ Auto switching baud rate, 300-115200 bps
 - ✓ Supports multiple baud-rate
 - ✓ Supports multiple data format
 - ✓ Supports 256 modules maximum in one RS-485 network without a repeater
- ✓ **Reliable Power Design**
 - ✓ Minimum 3000 VDC isolation protection at RS-232 side
 - ✓ Power and data flow indicator for troubleshooting
 - ✓ Power requirement: +10V to +30VDC
 - ✓ Power and data flow indicator for easy troubleshooting
- ✓ **Robust Industrial Design**
 - ✓ Robust ABS housing with captive mounting hardware
 - ✓ Supports operating temperature -25 to 75°C
 - ✓ DIN-Rail or Panel mount



Overview

The RUS-9520A is an Industrial RS-232 to RS-422/485 converter with Auto-Pro. The Auto-pro can adjust the baud-rate for different devices in a RS-485 network. "Auto baud rate detector" enables RUS-9520A to automatically configure RS-422/485 signals to any baud rate without external switch setting. The built-in opto-isolation on RUS-9520 provides 3000 VDC isolation to protect the host computer from ground loops and destructive voltage spikes on the RS-422/485 data lines. RUS-9520 also offers internal surge-protection on the data lines. Internal high-speed transient suppressors on each data line protect the module from dangerous voltages levels or spikes.

Block Diagrams



Hardware Specifications

Serial Interface

Input: RS-232

Output: RS-422/485 jumper selectable

Isolation Protection: 3000VDC at RS-232 Side

Supported Baud Rate:

Auto pro, baud rates from 300 to 115200 bps

RS-422 Signals: Tx, Rx, GND (Female DB9 connector)

RS-485 Signals: Data+, Data-

Communication Distance:

2.1 Km/9600 bps

2.7 Km/4800 bps

3.6 Km/2400 bps

Plug-in Screw/Terminal Wiring:

Accepts AWG 1-#12 to #22 (0.5 to 2.5mm) wires

Power

Power Requirements:

Unregulated +10 to +30VDC with protection from power reversals

Power Consumption: 2.2W

Physical

Case: ABS with captive mounting hardware

Accessories:

NYLON DIN-rail Mounting Adapter SECC Panel Mounting Bracket

Dimension: 7 x 10 x 2 cm

Weight: 0.4 kg

Environmental

Operating Temp: -25 to 75°C

Storage Temp: -40 to 80°C

Operating Humidity: 5% to 95% RH (non-condensing)

Regulatory Approvals

EMI: FCC

Safety: CE

Environmental: WEEE, RoHS

MTBF: 300,000 hrs based on Mil-Hdbk-217F, GB

Warranty: 5 years