



RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™



RACK-UP® SERIES

Model RU-SC1A

Serial Converter

ANYWHERE YOU NEED...

- Conversion From RS-232 to RS-485
- Conversion From RS-485 to RS-232
- Serial Data Up To 4000 Feet
- A Bi-Directional, Half-Duplex Serial Link
- A Fully Connectorized Interface
- Low or High Baud Rate

You Need The RU-SC1A!



The RU-SC1A is part of the group of versatile RACK-UP products from Radio Design Labs. The RACK-UP series features the advanced circuitry for which RDL products are known, combined with accessible, user-friendly controls and displays. The ultra-compact design permits high-density installations, with *three* products mounted in a single rack unit! Single RACK-UPS can be mounted right where they are needed using the adhesive methods popularized by RDL's STICK-ON® series of products. Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface. Optional rack-mount adapters (RU-RA3, RC-1U) are available for conventional RACK-UP series installation.

APPLICATION: The RU-SC1A is the ideal choice in installations where both RS-232 and RS-485 serial communications protocols are used. Both the RS-485 port and the RS-232 port are provided on the front panel of the RU-SC1A. Power connections are made on the rear panel through clearly identified, full-size barrier block terminals. When used with the optional RU-FP1, the RS-232 and RS-485 jacks are accessible from the rear of the rack.

The RU-SC1A is a bi-directional, half-duplex serial converter, exchanging data between the RS-232 and RS-485 ports.

Rear panel jumpers may be connected for operation at speeds below 9600. Front-panel LEDs are provided to show the direction of data flow when data is present from either the RS-232 or RS-485 sources.

Two RU-SC1As may be connected (via the RS-485 ports) over a long distance using balanced, twisted-pair line to permit feeding data between two RS-232 ports. This permits serial communications over much greater distances than with conventional RS-232 serial cables.

The RU-SC1A is the ideal choice wherever serial protocol conversion or serial data transmission over extended distances is required. Use the RU-SC1A individually, or combine it with other RDL RACK-UP or STICK-ON products as part of a complete system.



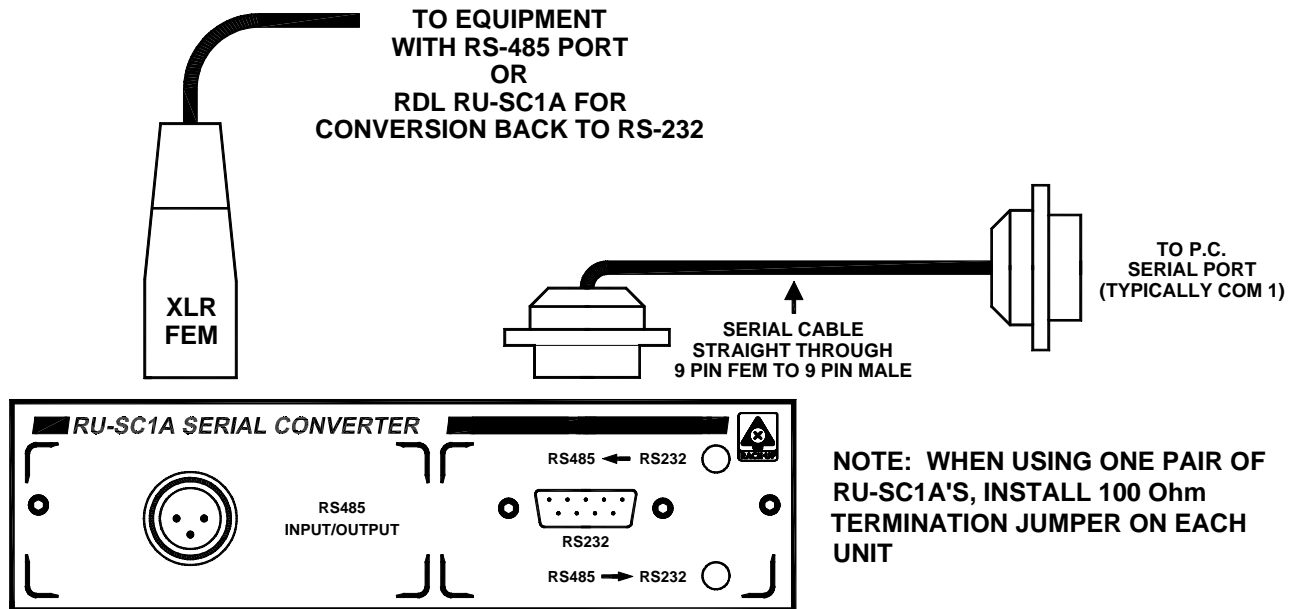
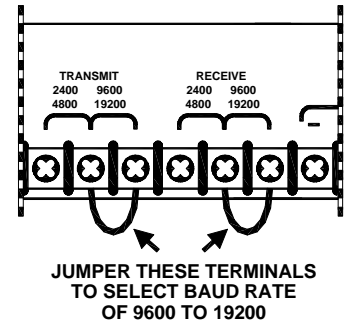
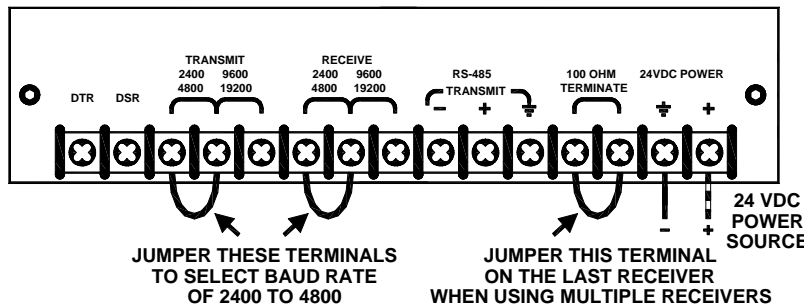
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Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Input/Output (Bi-Directional):
Baud Rate:
Alternate Baud Rate:
Indicators:
Power Requirement:
Mounting:

RS-232 (DB9 Female) and RS-485 (XLR Male)
9,600 through 19,200 (factory setting)
2,400 to 9,600 (rear terminal jumper selectable)
2 LED indicators; Data transfer **RS-485 to RS-232**; **RS-485 to RS-232**
24 to 33 Vdc @ 150 mA, Ground-referenced
Rack-mount using any one of several rack mount chassis accessories or other mounting accessories listed in the short form catalog or product CD-ROM
Height: 1.7 in. 4.3 cm
Length: 5.8 in. 15.0 cm
Depth: 2.0 in. 5.1 cm (case only)
2.5 in. 6.4 cm (including barrier block and jack)

Dimensions:

Radio Design Labs Technical Support Centers

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