



RUGGEDCOM DATASHEET

Serial device servers

Serial device servers are designed to increase ROI of legacy serial devices, reduce serial cabling costs and provide remote accessibility to lower management costs.
usa.siemens.com/ruggedcom

The RUGGEDCOM serial device servers are designed to operate reliably in electrically harsh and climatically demanding environments providing a high level of immunity to electro-magnetic interference (EMI) and heavy electrical surges. An operating temperature range of -40°C to +85°C coupled with hazardous location compliance (Class 1 Division 2) optional conformal coating and an aluminum enclosure allows the switches and routers to be placed in almost any location. Using serial device servers results in fewer connectivity devices (which reduces overall system costs) and also extends the useful life of existing legacy IEDs (which minimizes capital expenditure for new equipment).

The embedded Rugged Operating System (ROS) provides advanced cybersecurity features and comprehensive networking functions such as Enhanced Rapid Spanning Tree (eRSTP), Port Rate Limiting, and a full

array of intelligent functionality for high network availability and manageability. Coupled with ruggedness and durability that is designed in from the onset, the RUGGEDCOM serial device servers are ideal for creating mission-critical, real-time, control applications where high reliability and availability is of paramount importance.

All RUGGEDCOM products are backed by a five year warranty and unsurpassed technical support.

Common features

- Protocol aware mode supports multiple master scenarios
- Support for Modbus TCP, Raw Socket, DNP3, WIN, TIN and Microlock serial protocols
- Allows any serial protocol to be transmitted over an IP network
- -40°C to +85°C operating temperature (no fans)
- Universal high-voltage input: 120 V AC/DC and 230 V AC/DC
- Low voltage DC input: 12 VDC, 24 VDC or 48 VDC



[RUGGEDCOM General information](#)
[Technology Highlights](#)
[RUGGEDCOM Knowledge Zone](#)

SIEMENS

RUGGEDCOM RS400**4-port serial device server with integrated 4-port managed Ethernet switch**

- 4 x RS485/RS422/RS232 serial ports (DB9, RJ45, or screw terminals)
- + 4 x 10/100BASE-TX or 2 x 10/100 + 2 x 100BASE-FX

Data Sheet:

[RS400](#)

User Guide:

[RS400](#)

Installation Guide:

[RS400](#)**RUGGEDCOM RS401****4-port serial device server with integrated 4-port managed Ethernet switch**

- Optional V.90 modem
- RS485/RS422/RS232 serial ports (DB9, RJ45, or screw terminals)
- Baud rates up to 230kbps

Data Sheet:

[RS401](#)

User Guide:

[RS401](#)

Installation Guide:

[RS401](#)**RUGGEDCOM RS416****16-port serial device server with integrated 4-port managed Ethernet switch and IEEE 1588 v2 to IRIG-B conversion**

- Up to 16 serial ports: RS485/RS422/RS232 via DB9/RJ45 or fiber serial interface via ST + 4 x 10/100BASE-TX
- Optional dual redundant power supplies
- IED time synchronization with IRIG-B over serial ports

Data Sheet:

[RS416](#)

User Guide:

[RS416](#)

Installation Guide:

[RS416](#)**RUGGEDCOM RS416P****16-port serial device server with integrated 4-port managed Ethernet switch and IEEE 1588 v2 to IRIG-B conversion**

- Up to 16 serial ports: RS485/RS422/RS232 via DB9/RJ45 or fiber serial interface via ST + 4 x 10/100BASE-TX
- Optional dual redundant power supplies
- 2 or 4 x 10/100BASE-TX 802-3af compliant ports

Data Sheet:

[RS416P](#)

User Guide:

[RS416P](#)

Installation Guide:

[RS416P](#)

Figure similar

RUGGEDCOM RS910**2-port serial service server with integrated 3-port managed Ethernet switch**

- 2 x serial ports (RS485/RS422/RS232 via DB9, RJ45 or fiber-serial interface via ST) + 3 x 10/100BASE-X

Data Sheet:

[RS910](#)

User Guide:

[RS910](#)

Installation Guide:

[RS910](#)**RUGGEDCOM RMC30****2-port serial device server**

- 1 x RS232, 1 x RS422/485, and 1 x 10/100BASE-TX

Data Sheet:

[RMC30](#)

User Guide:

[RMC30](#)

Installation Guide:

[RMC30](#)**Legal Manufacturer**

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