



RUGGEDCOM DATASHEET

Ethernet layer 3 switches/routers

Ethernet Layer 3 switches/routers are designed for use in high performance industrial networks. They are modular in design and support various IT standards, including VLAN, IGMP and RSTP

usa.siemens.com/ruggedcom

Designed to operate reliably in harsh environments, the RUGGEDCOM Ethernet Layer 3 switches and routers family provides a high level of immunity to electromagnetic 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.

The embedded ROX II (Rugged Operating System on Linux) combines Layer 2 switching functions, Layer 3 routing functions, along with advanced cybersecurity features and comprehensive cybersecurity functions to provide a full array of intelligent functionality for high network availability and manageability. Coupled with

the ruggedness and durability that is designed in from the onset, these products 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

Cybersecurity appliance functions

- Integrated firewall, IPSec and tunneling agents
- RADIUS and TACACS+ authentication
- Multi-level user access management
- Enable/disable ports, MAC based port security
- CROSSBOW SAC (Station Access Controller) for NERC-CIP enforcement



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

Product family RUGGEDCOM
Ethernet Layer 3 switches/routers
[Multi-Service Platforms brochure](#)
[Ordering Overview](#)

SIEMENS

Routing

- Traffic Quality of Service
- NTP server
- IP multicast routing, rip , ospf, btp, isis
- Protocol-Independent Multicasting (PIM)

RUGGEDCOM RX1400

Multi-protocol intelligent node

- Integrated isolated power supply
- 4 x 10/100BASE-TX, 2 x 1000BASE-X SFP
- 2 x RS485/RS422/RS232 serial ports
- Optional 4G LTE cellular modem
- Dual micro-SIM support for carrier redundancy
- Optional 2 x R-SMA interface for Wireless LAN 802.11 a/b/g/n interface (Access Point/Client)
- GPS input for location data
- MicroSD slot for configuration or application storage
- Optional virtual machine environment

Data Sheet:

[RX1400](#)

User Guide:

[RX1400](#)

Installation Guide:

[RX1400](#)



Switching

- Class of Service (802.1p) for real-time traffic
- VLAN (802.1Q) support
- Link aggregation

RUGGEDCOM RX1500

Layer 2 and layer 3 switch and router

- Modular redundant hot swappable power supplies
- Supports up to 4 hot swappable line modules

[Line modules for RX1500](#)

Data Sheet:

[RX1500](#)

User Guide:

[RX1500](#)

Installation Guide:

[RX1500](#)



RUGGEDCOM RX1501

Layer 2 and layer 3 switch and router

- Modular single power supply
- Supports up to 6 hot swappable line modules

[Line modules for RX1500](#)

Data Sheet:

[RX1501](#)

User Guide:

[RX1501](#)

Installation Guide:

[RX1501](#)



RUGGEDCOM RX1510

Compact layer 2 and layer 3 switch and router

- Modular redundant hot swappable power supplies
- Supports up to 4 hot swappable line modules

[Line modules for RX1500](#)

Data Sheet:

[RX1510](#)

User Guide:

[RX1510](#)

Installation Guide:

[RX1510](#)



RUGGEDCOM RX1511**Compact layer 2 and layer 3 switch and router**

- Modular single power supply
- Supports 2 hot swappable line modules

[Line modules for RX1500](#)

Data Sheet:

[RX1511](#)

User Guide:

[RX1511](#)

Installation Guide:

[RX1511](#)

**RUGGEDCOM RX1512****Compact layer 2 and layer 3 switch and router**

- Internal wide low-range DC power supply
- Supports up to 2 line modules

[Line modules for RX1500](#)

Data Sheet:

[RX1512](#)

User Guide:

[RX1512](#)

Installation Guide:

[RX1512](#)

**RUGGEDCOM RX5000****High port density Ethernet routing and switching platform**

- 2 x 10GBASE-X SFP+ uplinks
- Supports up to 98 ports
- Supports up to 6 line modules
- Modular redundant power supplies

[Line modules for RX5000](#)

Data Sheet:

[RX5000](#)

User Guide:

[RX5000](#)

Installation Guide:

[RX5000](#)

**RUGGEDCOM RX1524****Layer 2 and layer 3 switch and router**

- Modular redundant power supplies
- Supports up to 4 line modules
- Improved processing power (10x the RX1500/01)
- Upgraded RAM (4x the RX1500/01)
- Improved Encryption Performance

[Line modules for RX1524](#)

Data Sheet:

[RX1524](#)

User Guide:

[RX1524](#)

Installation Guide:

[RX1524](#)

**RUGGEDCOM RX1536****Layer 2 and layer 3 switch and router**

- Single modular multi-range power supply
- * Supports up to 6 line modules
- * Improved processing power (10x the RX1510/11)
- * Upgraded RAM (4x the RX1510/11)
- * Improved Encryption Performance

[Line modules for RX1536](#)

Data Sheet:

[RX1536](#)

User Guide:

[RX1536](#)

Installation Guide:

[RX1536](#)



Legal Manufacturer

Siemens Industry, Inc.
100 Technology Drive
Alpharetta, GA 30005
United States of America

Telephone: +1 (800) 241-4453
usa.siemens.com/ruggedcom

© 08.2021, Siemens Industry, Inc.

This document contains a general description of available technical options only, and its effectiveness will be subject to specific variables including field conditions and project parameters. Siemens does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Siemens reserves the right to modify the technology and product specifications in its sole discretion without advance notice.