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.

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 cyber security features and comprehensive networking 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, the RX1500 is 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

**Cyber security 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

**Routing**
- Traffic Quality of Service NTP server
- IP multicast routing
- Protocol-Independent Multicasting (PIM)

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

RUGGEDCOM Product information
General background information
RUGGEDCOM Brochures and information material
Product family RUGGEDCOM Ethernet Layer 3 switches/routers
RUGGEDCOM Multi-Service Platforms brochure
Brochure RX1400
Ordering Overview

The tool for selection and configuration of RUGGEDCOM products.

RUGGEDCOM Selector
RUGGEDCOM RX1400
Multi-protocol intelligent node
• Integrated power supply
• 4 x 10/100BASE-TX, 2 x 1000BASE-X SFP
• Optional 2 R-SMA interface for WLAN interface (Access Point/Client)
• Optional LTE 4G cellular modem
• Optional virtual machine environment
Data Sheet: RX1400
User Guide: RX1400
Installation Guide: RX1400

RUGGEDCOM RX1501
Layer 2 and layer 3 switch and router
• Modular single power supply
• Supports up to 6 line modules
Line modules for RX1500
Data Sheet: RX1501
User Guide: RX1501
Installation Guide: RX1501

RUGGEDCOM RX1511
Compact layer 2 and layer 3 switch and router
• Modular single power supply
• Supports up to 6 line modules
Line modules for RX1500
Data Sheet: RX1511
User Guide: RX1511
Installation Guide: RX1511

RUGGEDCOM RX1500
Layer 2 and layer 3 switch and router
• Modular redundant power supplies
• Supports up to 4 line modules
Line modules for RX1500
Data Sheet: RX1500
User Guide: RX1500
Installation Guide: RX1500

RUGGEDCOM RX1510
Compact layer 2 and layer 3 switch and router
• Modular redundant power supplies
• Supports up to 4 line modules
Line modules for RX1500
Data Sheet: RX1510
User Guide: RX1510
Installation Guide: RX1510

RUGGEDCOM RX1512
Compact layer 2 and layer 3 switch and router
• Internal wide-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
• Modular redundant power supplies
• Support for up to 98 ports
• Supports up to 6 line modules
Line modules for RX5000
Data Sheet: RX5000
User Guide: RX5000
Installation Guide: RX5000

The technical data presented in this document is based on an actual case or on as-designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.