RUGGEDCOM
Products at a Glance
Rugged network components
usa.siemens.com/ruggedcom
RUGGEDCOM products provide a level of robustness and reliability that have set the standard for communication networks deployed in harsh environments.

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RUGGEDCOM product family

RUGGEDCOM products are part of Siemens industrial communication networks portfolio. They offer extreme temperature range, Zero-Packet-Loss technology for immunity to high levels of electromagnetic interference, and enhanced Rapid Spanning Tree Protocol (eRSTP™) for ultra high-speed network fault recovery.

RUGGEDCOM products can be found in mission critical networks used in electric power, transportation and oil&gas industries.
Features
• Large variety of fiber port options available
• Long haul fiber support
• -40°C to +85°C operating temperature (no fans)
• Conformal coating for extra environmental protection
• High immunity to EMI and heavy electrical surges
• Many different fiber port options available

Reliable operation in harsh electrical environments
• IEC 61850-3 and IEEE 1613 (electric power)
• IEC 61000-6-2 and IEC 61800-3 (industrial environments)
• NEMA TS-2 (traffic control)
• EN 50121-4 (railway)
• EN 50155 (on-board rail vehicles)

Error-free operation in high EMI environments
• Zero-Packet-Loss technology for fiber-based networking devices
• IEEE 1613 class 2 error-free performance under EMI stress

Operation over a wide temperature range
• -40°C to +85°C operating temperature
• Passive cooling – no fans

High availability
• Integrated single or redundant power supplies
• Dual power supplies can be powered independently, from different input voltages
• Universal high-voltage range: 88–300 VDC or 85–264 VAC
• Low Voltage power supplies

Industrial installations
• Metal enclosure
• Heavy duty mounting
• Industrial terminal blocks for power and I/O connections
Highly Accelerated Life Testing (HALT)
HALT is used during the early product research and design phase to eliminate marginally performing components and manufacturing processes. To achieve this, products will endure the HALT test for extended periods of time at extreme vibrations and temperature levels over multiple stress cycles. Siemens uses the HALT chamber to ensure that RUGGEDCOM products perform reliably throughout their intended service lives.

Highly Accelerated Stress Screening (HASS)
During the HASS testing process, RUGGEDCOM products are loaded into the HASS chamber. Modular fixtures can be fully or partially loaded with RUGGEDCOM products. Once the products are loaded, a RUGGEDCOM specific test script is launched and a scanning process is initiated to automate the monitoring process of running units. HASS testing ensures that all products leaving the factory are of the highest quality.

For information about the HALT and HASS processes please visit - www.siemens.com/ruggedcom/stresstests
### Ethernet Layer 3 switches and routers

Ethernet Layer 3 switches and 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.

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<th>Model</th>
<th>Description</th>
<th>Features</th>
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<td><strong>RUGGEDCOM RX1400</strong></td>
<td>Multi-protocol intelligent node</td>
<td>• Integrated power supply&lt;br&gt;• 4 x 10/100BASE-TX, 2 x 1000BASE-X SFP&lt;br&gt;• Optional 2 R-SMA interface for WLAN interface (Access Point/Client)&lt;br&gt;• Optional LTE 4G cellular modem&lt;br&gt;• Optional virtual machine environment</td>
</tr>
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<td><strong>RUGGEDCOM RX1500</strong></td>
<td>Layer 2 and layer 3 switch and router</td>
<td>• Modular redundant power supplies&lt;br&gt;• Supports up to 4 line modules</td>
</tr>
<tr>
<td><strong>RUGGEDCOM RX1501</strong></td>
<td>Layer 2 and layer 3 switch and router</td>
<td>• Modular single power supply&lt;br&gt;• Supports up to 6 line modules</td>
</tr>
<tr>
<td><strong>RUGGEDCOM RX1510</strong></td>
<td>Compact layer 2 and layer 3 switch and router</td>
<td>• Modular redundant power supplies&lt;br&gt;• Supports up to 4 line modules</td>
</tr>
<tr>
<td><strong>RUGGEDCOM RX1511</strong></td>
<td>Compact layer 2 and layer 3 switch and router</td>
<td>• Modular single power supply&lt;br&gt;• Supports up to 2 line modules</td>
</tr>
<tr>
<td><strong>RUGGEDCOM RX1512</strong></td>
<td>Compact layer 2 and layer 3 switch and router</td>
<td>• Internal wide-range DC power supply&lt;br&gt;• Supports up to 2 line modules</td>
</tr>
<tr>
<td><strong>RUGGEDCOM RX5000</strong></td>
<td>High port density Ethernet routing and switching platform</td>
<td>• 2 x 10GBASE-X SFP+ uplinks&lt;br&gt;• Support for up to 98 ports&lt;br&gt;• Modular redundant power supplies&lt;br&gt;• Supports up to 6 line modules</td>
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Common features

Cyber security appliance functions
• Integrated firewall, IPSec and tunneling agents
• VPN with 3DES, AES128, AES256 support
• RADIUS authentication
• Multi-level user access management
• SSH/SSL (128-bit encryption)
• Enable/disable ports, MAC based port security
• Port-based network access control (802.1x)
• VLAN (802.1Q) to segregate and secure network traffic
• SNMP v3 encryption, integrity and authentication
• CheckPoint on RUGGEDCOM APE
• CROSSBOW SAC for NERC-CIP enforcement

Routing
• MPLS
• VRRP, OSPF, BGP, IS-IS
• DHCP agent (option 82 capable)
• Traffic prioritization, NTP server
• IP multicast routing
• Protocol-Independent Multicasting (PIM)

Switching
• MSTP 802.1Q-2005
• RSTP (802.1w) and enhanced Rapid Spanning Tree (eRSTP) network fault recovery (<5 ms)
• Quality of Service (802.1p) for real-time traffic
• VLAN (802.1Q) support
• Link aggregation
• Traffic prioritization
• Transaction-based configuration with rollback
• GMRP and GVRP support

WAN
• Frame Relay RFC 1490 or RFC 1294
• PPP
• PAP, CHAP authentication
• IEC 61850 GOOSE messaging support
Cellular routers

4G LTE cellular routers provide high bandwidth and reliable remote data communication over long distances.

RUGGEDCOM RM1224
4-port Fast Ethernet switch
• One digital input and one digital output
• 2 SMA ports for Wireless WAN Interface (4G/3G/2G) with uplink speeds up to 100 Mbit/s
• 4 x 10/100BASE-TX
• C-/KEY-PLUG slot for configuration storage

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
19” Ethernet Layer 2 switches

Rack-mounted Ethernet Layer 2 switches deliver utility-grade performance, reliability and field-proven MTBF to lower OPEX costs.

**RUGGEDCOM RSG2100**
19-port modular managed Ethernet switch with Gigabit uplinks
- 3 x 1000BASE-X + 16 x 10/100BASE-X
- Hazardous location certification: Class 1 Division 2
- Power-over-Ethernet (PoE) version available

**RUGGEDCOM RSG2200**
9-port managed Gigabit Ethernet switch
- 1000BASE-X and/or 10/100/1000BASE-T
- Hazardous location certification: Class 1 Division 2

**RUGGEDCOM RST2228** New
28-port high density managed field modular IEEE 1588 switch with 10 Gbit/s uplinks
- 4 x 1000BASE-X/10GBASE-X uplinks
- Up to 24 x 10/100/1000BASE-X ports
- Field-modular 4-port modules for added flexibility
- IEEE 1588 v2 with hardware time stamping

**RUGGEDCOM RSG2288**
9-port managed Gigabit Ethernet switch with IEEE 1588 v2 and IRIG-B conversion
- 1000BASE-X and/or 10/100/1000BASE-T
- Available PTP module provides GPS time source and IRIG-B in/out

**RUGGEDCOM RSG2300**
32-port managed Ethernet switch with Gigabit uplinks
- 24 x 10/100BASE-TX + 8 x 10/100BASE-X or 4 x 100/1000BASE-X and 4 x 10/100BASE-X
- Hazardous location certification: Class 1 Division 2
- Power-over-Ethernet (PoE) version available

**RUGGEDCOM RSG2488**
28-port advanced utility-grade, high density managed IEEE 1588 Gigabit Ethernet switch
- Field replaceable Ethernet and time synchronization media modules
- Hot-swappable power supplies
- 28 x 1000BASE-X non-blocking architecture
- IEEE 1588 v2 hardware time stamping
Compact Ethernet Layer 2 switches

Compact Ethernet Layer 2 switches are designed for tight spaces and come with a full array of intelligent functionality for robust operation in harsh industrial environments.

**RUGGEDCOM RS900**
9-port managed Ethernet switch with fiber uplinks
- 6 x 10/100BASE-TX + 3 x 100BASE-FX
- Hazardous location certification: Class 1 Division 2

**RUGGEDCOM RS900G**
10-port managed Ethernet switch with Gigabit uplinks
- 8 x 10/100BASE-TX + 2 x 1000BASE-X
- Railway application certification: EN50121-4
- Hazardous location certification: Class 1 Division 2

**RUGGEDCOM RS900GP**
10-port managed PoE Ethernet switch with Gigabit uplinks
- 8 x 10/100BASE-TX 802.3af/at compliant ports
- Up to 2 x 10/100/1000BASE-T or 2 x 100/1000BASE-X

**RUGGEDCOM RSG907R**
7-port managed Gigabit IEEE 1588 compatible Ethernet switch supporting HSR and PRP.
- 3 x RNA (Redundant Network Access) and coupler Ethernet ports according to IEC 62439-3 (1000BASE-X)
- 4 x SAN (Singly Attached Node) fiber optic ports (100BASE-FX)
- Multiple fiber connector types (SFP, LC)
- IEEE 1588 v2 with hardware time stamping

**RUGGEDCOM RSG909R**
9-port managed Gigabit IEEE 1588 compatible Ethernet switch supporting HSR and PRP.
- 3 x RNA (Redundant Network Access) and coupler Ethernet ports according to IEC 62439-3 (1000BASE-X)
- 6 x SAN (Singly Attached Node) copper ports (10/100/1000BASE-TX)
- Industry standard connectors: SFP, RJ45
- IEEE 1588 v2 with hardware time stamping
RUGGEDCOM RSG920P
20-port managed Gigabit Ethernet switch with PoE
• 12 x 10/100/1000BASE-T + 4 x 100/1000BASE-X SFP + 4 x 10/100/1000BASE-T PoE (802.3af/802.3at)
• Powers up to 4 PoE enabled devices when used with optional RPS1300 companion power supply

RUGGEDCOM RS940G
8-port managed Gigabit Ethernet switch
• 6 x 10/100/1000BASE-T + optional 2 x 1000BASE-X
• Hazardous location certification: Class 1 Division 2

RUGGEDCOM RS950G
Managed Gigabit PRP/HSR RedBox
• 1x 100/1000BASE-X SFP local port, 2x 100/1000BASE-X redundant ports
• 2 x HSR/PRP ports
• Gigabit throughput

RUGGEDCOM i800 product family
Unmanaged or managed Ethernet switch
• Four models to choose from with up to 8 x 10/100BASE-TX and up to 3 x fiber ports
• -20° C to + 60° C operating temperature (-40° C to + 85° C optional)
• i800: 8 x 10/100BASE-TX
• i801: 8 x 10/100BASE-TX + 1 x 1000BASE-LX or 1 x 10/100/1000BASE-T
• i802: 6 x 10/100BASE-TX + 1 x 100BASE-FX or 2 x 100BASE-FX or 2 x 1000BASE-LX or 2 x 10/100/1000BASE-T
• i803: 4 x 10/100BASE-TX + 1 x 100BASE-FX + 2 x 1000BASE-LX or 2 x 100BASE-FX
Ethernet media converters are designed to bridge the gap between copper and fiber-optic network segments, reducing installation and configuration costs.

**RUGGEDCOM RMC**
Ethernet media converter (copper-to-fiber)
- 10BASE-T to 10BASE-FL
- 100BASE-TX to 100BASE-FX

**RUGGEDCOM RMC20**
Serial media converter (copper-to-fiber)
- RS485/RS422/RS232 conversion to multimode fiber and back

**RUGGEDCOM RMC40**
4-port Ethernet media and speed converter
- 10/100BASE-TX to 100BASE-FX or 10/100BASE-TX
- Provides media and speed conversion
- Unmanaged switch

**RUGGEDCOM RMC41**
2-port Ethernet media and speed converter
- 10/100BASE-TX to 100BASE-FX converter

**RUGGEDCOM RMC8388**
Compact time protocol converter
- PTP (IEEE 1588) to IRIG-B (AM or TTL)
- PTP (IEEE 1588) to PPS
- IRIG-B AM to PTP (IEEE 1588)
Compact power injectors and supplies help reduce costs by eliminating separate power and data cabling requirements.

**RUGGEDCOM RP100**
Single port PoE injector
- 802.3af/802.3at compliant version
- RUGGEDCOM WIN compliant version
- -40° C to +85° C operating temperature (no fans)

**RUGGEDCOM RP110**
Serial PoE injector
- 802.3af/802.3at compliant version
- RUGGEDCOM WIN compliant version
- 1 x RS422/485 + 1 x RS232
- IRIG-B output
- Transmits serial data over an IP network
- Support for Modbus TCP, DNP3, TIN serial protocols
- Raw socket mode allows tunneling of any serial protocol
- -40° C to +85° C operating temperature (no fans)

**RUGGEDCOM RPS1300**
140 W PoE 54 VDC power supply
- Input voltage: 120 VAC, 230 VAC
- Output voltage: 54 VDC
- -40° C to +75° C operating temperature
- NEMA TS-2 rated
Private wireless WAN solutions enable secure long-range connectivity, extending IP networks over long distances to fixed and mobile users.

**RUGGEDCOM WIN5100**
Vehicular subscriber unit
- 2 antennas for external connection
- Powered directly through 12 VDC, 24 VDC or PoE
- Optimized for AeroMACS (Aeronautical Mobile Airport Communications System)

**RUGGEDCOM WIN5100-V**
Enhanced vehicular subscriber unit
- 10/100BASE-TX M12 interface
- 2 antennas for external connection
- Powered directly with 9-36 VDC
- Optional GPS
- Optimized for AeroMACS

**RUGGEDCOM WIN5200**
Outdoor subscriber unit with PoE
- High gain integrated antenna
- Compatible with RP100/110
- Optimized for AeroMACS

**RUGGEDCOM WIN7000**
High power base station
- High output power of 2 x 36 dBm
- Single cable power and Ethernet, or fiber-optic interface options

**RUGGEDCOM WIN7200**
Base station
- Small form factor and low power consumption
- Power-over-Ethernet (PoE) single cable design
- Optimized for AeroMACS

**Common features**
- Available in multiple frequencies
- Over the air IEC 61850 GOOSE messaging support
- Seamless mobility in standalone mode
- Excellent performance in NLOS conditions
- Greater than 40 Mbps aggregate throughput
- Mobile-WiMAX compliance based on IEEE 802.16e standard and WiMAX Forum Wave2 (MIMO) certification
- Standalone solution for deployment without additional servers support
Compact form factor Ethernet switches with EoVDSL2 uplinks provide the flexibility to use legacy copper or optical infrastructure in harsh environments.

**RUGGEDCOM RSL910**
Compact Ethernet switch with EoVDSL2 uplinks
- 2 x 100/1000BASE-X SFP uplink ports
- 6 x 10/100BASE-TX device ports
- 2 x EoVDSL2 uplink ports with terminal blocks
- Integrated 24 VDC, 48 VDC or HI voltage power supply
- RS232 console port and failsafe relay output
# 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.

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<th>Model</th>
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<th>Features</th>
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| 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 |
| RUGGEDCOM RS401 | 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 |
| 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 |
| RUGGEDCOM RS910 | 2-port serial device 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 |
| RUGGEDCOM RMC30 | 2-port serial device server                      | • RS232/RS422/RS485 serial to IP conversion                             |

**Common features**

- Support for Modbus TCP, Raw Socket, DNP3, TIN serial protocols
- Allows any serial protocol to be transmitted over an IP network
Military standard products are designed to operate in harsh environments and meet and exceed strict specifications of the defense industry.

RUGGEDCOM M969
10-port managed Ethernet switch with fiber uplinks
- MIL-STD and IP66/IP67 rated
- 8 x 10/100BASE-TX + 2 x 1000BASE-X
- IP66/67 rated

RUGGEDCOM M2100
19-port modular managed Ethernet switch
- 3 x 1000BASE-X + 16 x 10/100BASE-X

RUGGEDCOM M2200
9-port managed Gigabit Ethernet switch
- 1000BASE-X and/or 10/100/1000BASE-T

RUGGEDCOM MX5000
Multi-Service Platform
- High-density MIL-STD rated switch and router
- Supports up to 50 fiber or 98 copper ports

RUGGEDCOM MX5000RE
Multi-Service Platform with enclosure
- MIL-STD switching/routering platform
- IP65 EMI/EMC/shock/vibration-rated enclosure
- Replaceable enclosure

Certifications
- MIL-STD 901D – shock (hard mounted)
- MIL-STD 167 – vibration
- MIL-STD 461 – EMI
- MIL-STD 1399 – DC magnetic field exposure
- MIL-STD 810 – temperature and humidity
A modern substation contains vast amounts of data, subsets of which are of interest to control center or enterprise applications and users. RUGGEDCOM software solutions have been developed to help the electric utility industry by providing secure access to this data, processing it into useful information and making it available in a usable format to a wide range of users and enterprise systems.

**RUGGEDCOM CROSSBOW**

An enterprise level solution for managing and securing remote maintenance access to field devices in compliance with the NERC CIP standards. Offers tremendous ease of use, and unique automation capabilities for change management applications.

**Features:**
- Secure remote access
- Authenticate users against IT systems
- Automate user login
- Manage device passwords and configurations
- Control, log, and report user access
RUGGEDCOM ELAN

RUGGEDCOM ELAN modular, Linux/ROX-based substation servers and front-end processors excel at accessing all types of device data, and getting it to the clients that require it.

Features:
• Preserves investment in legacy devices and control center applications
• Supports both SCADA and non-SCADA hosts, such as data historians
• Protocol conversion and routing, real-time engine with support for most commonly used protocols
• Automated event file retrieval from major relay vendors
• Powerful automation processing capabilities

RUGGEDCOM REFLEX

RUGGEDCOM REFLEX is a monitoring and control application purpose built for distribution networks, allowing the creation of systems that cover the spectrum from single user HMI to mobile distribution management to enterprise level monitoring and control.

Features:
• Single line visualization
• Graphic trending of values
• Alarm summary and alerting
• Report generation
• Web-launched client
• Integrated data historian
RUGGEDCOM NMS

RUGGEDCOM NMS is a scalable, fully-featured, enterprise grade solution for monitoring, configuring and maintaining RUGGEDCOM mission-critical networks.

It improves operational efficiency, speeds up system provisioning, and preserves data validity, while allowing focus on the key events on the network.

Features:

• Centralized web based management of your RUGGEDCOM and IP-network
• Auto-discovery of device links and services and representation on a network map
• Real-time monitoring and notification of events, alarms and thresholds
• Continuous collection of traffic statistics for analysis and reporting
• Deployment of firmware/software upgrades across RUGGEDCOM devices
• Automatic backup of RUGGEDCOM device configuration data
• Creation of templates and propagation of configuration changes across ROX II devices
• Monitors ROS and ROX II configurations and reports changes that exceed the authorized user-defined boundaries
• Bulk password changes of ROS, ROX I and WIN based RUGGEDCOM devices
RUGGEDCOM PING

RUGGEDCOM PING is a high speed graphical ping tool. This handy utility can send an ICMP echo request message every 1ms. Network administrators will be able to perform RSTP performance testing, ping sweeps, and monitor devices with RUGGEDCOM PING.

Features:
- Allows users to test the recovery time of their networks
- Gives detailed reports of network outages
- Discovers and probes the responsiveness of multiple devices simultaneously

RUGGEDCOM EXPLORER

RUGGEDCOM EXPLORER is a powerful tool to easily provision and configure ROS® based devices. RUGGEDCOM EXPLORER can run on any MS Windows PC, eliminating the need to connect a serial cable to any of the devices. Its built-in file transfer capabilities allow users to easily upload and download files and firmware from one convenient console.

Features:
- Intuitive GUI displays all ROS® devices and visually identifies duplicate IP addresses
- Automatically discovers new devices added to the network
- Easy identification of devices via control of panel LEDs

RUGGEDCOM DIRECTOR

RUGGEDCOM DIRECTOR is a serial port re-direction application that is designed to extend the life and reach of applications written for serial communications.

Features:
- Redirect serial port traffic over the network extending the life and range of serial devices
- Eliminate physical port restriction with up to 128 virtual serial ports
- Load and save configuration profiles for backup and migration
FastConnect™ Cabling System

Stringent demands are placed on the installation of cables in an industrial environment. Siemens offers FastConnect™, a system that fulfils all these requirements: on-site assembly – quick, easy and error-free. For more information, visit: siemens.com/fastconnect

With the RUGGEDCOM Selector you can transfer the order number to the Siemens Industry Mall and order your products.

To use the RUGGEDCOM Selector for the selection and configuration of RUGGEDCOM products, visit: siemens.com/ruggedcom-selector

For more information on wireless approvals, visit: siemens.com/wireless-approvals
Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement -- and continuously maintain -- a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit: siemens.com/industrialsecurity

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer’s exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under: siemens.com/industrialsecurity

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