



# SIEMENS

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## Compact Ethernet layer 2 switches

### RUGGEDCOM Datasheet

**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.**

Designed to operate reliably in harsh environments, the RUGGEDCOM Compact Ethernet Layer 2 switches provide a high level of immunity to electromagnetic interference and heavy electrical surges typical of environments found in electric utility substations, curb side traffic control cabinets, and factory floors. An operating temperature range of -40°C to +85°C coupled with hazardous location compliance, optional conformal coating and a galvanized steel enclosure allow the RUGGEDCOM Compact Ethernet Layer 2 switches to be placed in almost any location.

The embedded Rugged Operating System (ROS) provides advanced cyber security 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 Compact Ethernet Layer 2 switches 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

- Long haul fiber support
- High immunity to EMI and heavy electrical surges
- Serial management console
- Fail-safe relay
- -40°C to +85°C operating temperature (no fans)

- Fully integrated power supply
- Universal high-voltage input: 120 V AC DC and 230 V AC/DC (excluding RUGGEDCOM i800 product family)
- Low voltage DC input: 12 VDC, 24 VDC or 48 VDC

[RUGGEDCOM Product Information](#)  
[General background information](#)  
[RUGGEDCOM Brochures and information material](#)

Product family Compact Ethernet Layer 2 Switches

[Family brochure](#)

[RUGGEDCOM RSG907R & RSG909R](#)



### 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 Integrated power supply

Data Sheet:

[RS900](#)

User Guide:

[RS900](#)

Installation Guide:

[RS900](#)



### 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

Data Sheet:

[RS900G](#)

User Guide:

[RS900G](#)

Installation Guide:

[RS900G](#)



### 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

Data Sheet:

[RS900GP](#)

User Guide:

[RS900GP](#)

Installation Guide:

[RS900GP](#)



### 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

[Brochure RSG920P](#)

Data Sheet:

[RSG920P](#)

User Guide:

[RSG920P](#)

Installation Guide:

[RSG920P](#)



### 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

Data Sheet:

[RS940G](#)

User Guide:

[RS940G](#)

Installation Guide:

[RS940G](#)



### 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

Data Sheet:

[RS950G](#)

User Guide:

[RS950G](#)

Installation Guide:

[RS950G](#)



### 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)

Data Sheet:

[i800](#)

User Guide:

[i800](#)

Installation Guide:

[i800](#)



### RUGGEDCOM RS900M OEM module

#### 10-port managed Ethernet switch module for OEM applications

- Supports up to 10 x 10/100BASE-X or 8 x 10/100BASE-X and 2 x 10/100/1000BASE-X
- Full Rugged Operating System (ROS®) feature set
- Compact design and small footprint (3" x 4")
- Low power consumption

Data Sheet:

[RS900M](#)

User Guide:

[RS900M](#)

Developer Guide:

[RS900M](#)



**RUGGEDCOM RSG907R** New

**7-port managed Gigabit IEEE 1588 compatible Ethernet switch supporting HSE 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

Data Sheet:  
[RSG907R](#)

User Guide:  
[RSG907R](#)

Installation Guide:  
[RSG907R](#)



**RUGGEDCOM RSG909R** New

**9-port managed Gigabit IEEE 1588 compatible Ethernet switch supporting HSE 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 (10/100/100BASE-TX)
- Industry standard connectors: SFP, RJ45
- IEEE 1588 v2 with hardware time stamping

Data Sheet:  
[RSG909R](#)

User Guide:  
[RSG909R](#)

Installation Guide:  
[RSG909R](#)



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