RuggedWireless™ RS900W Family of Wireless Ethernet Switches

Industrially Hardened LAN Based Wireless Networking

RS900W

Wireless Ethernet Switch with Integrated 8 Port Switch

- up to 8 Ethernet Ports
- 6 copper plus 2 optional copper or fiber interfaces
- Multiple fiber connector types
- Can be configured as an access, client, or bridge device

RS910W

Wireless Device Server with 2 Serial and/or 2 Ethernet Ports

- 2 Serial Ports and optional 2 Ethernet Ports
- RS485/RS422/RS232 (DB9 or RJ45)
- Copper or fiber interface
- Multiple fiber connector types

RS920W

Wireless Device Server with Ethernet over VDSL Interface

- 1 Ethernet over VDSL Interface
- Optional 2 Serial Ports or 2 Ethernet Ports (copper of fiber)
- RS485/RS422/RS232 (DB9 or RJ45)
- Use existing telephone wiring for Ethernet networking with the xVDSL Interface

RS930W

Wireless Ethernet Switch with Integrated 6 Port Switch and Ethernet over VDSL Interface

- 1 Ethernet over VDSL Interface
- 6 10/100BaseTx Ethernet Ports
- Can be configured as an access, client, or bridge device
- Use existing telephone wiring for Ethernet networking with the xVDSL Interface

Common Product Features

Cyber Security

- WPA (Wi-Fi Protected Access) with TKIP for enhanced security and encryption
- WPA2/802.11i with CCMP for robust security and encryption
- IEEE 802.1X/RADIUS using EAP-PEAP for secure "enterprise class" authentication configuration
- Pre-shared Key Mode (PSK) for "personal" mode authentication configuration
- Multi-level user passwords
- SSH/SSL encryption
- Enable/disable ports, MAC based port security
- Port based network access control (802.1x)
- VLAN (802.1q) to segregate and secure network traffic
- Radius centralized password management
- SNMPv3 encrypted authentication and access security

Rugged Operating System (ROS™) Features

- Simple plug and play operation - automatic learning, negotiation, and crossover detection
- RSTP (802.1w) and Enhanced Rapid Spanning Tree (eRSTP™) network fault recovery (<5ms)
- Quality of Service (802.1p) for real-time traffic
- VLAN (802.1q) with double tagging and GVRP support
- Link aggregation (802.3ad)
- IGMP Snooping for multicast filtering
- Port Rate Limiting and Broadcast Storm Limiting
- Port configuration, status, statistics, mirroring, security
- Loss of link management on fiber ports
- SNTP time synchronization (client and server)

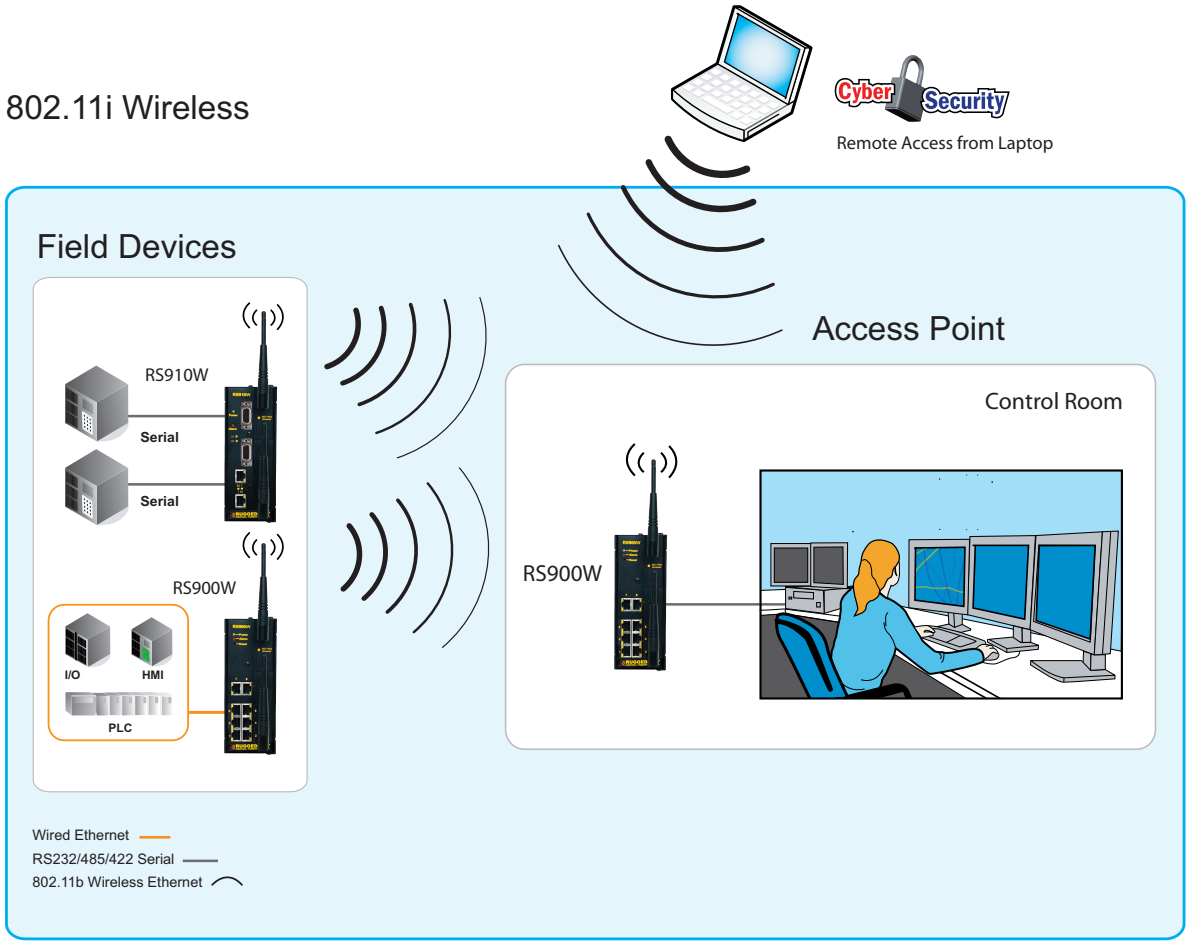
RuggedRated™ for Reliability in Harsh Environments

- Immunity to EMI and heavy electrical surges
  - Meets IEEE 1613 (electric utility substations)
  - Exceeds IEC 61850-3 (electric utility substations)
  - Exceeds IEC 61800-3 (variable speed drive systems)
  - Exceeds IEC 61000-6-2 (generic industrial)
- -40 to +85°C operating temperature (no fans)
- Fully integrated industrially rated universal power supply: (8-300VDC/85-264VAC), (9-36VDC) or (36-59VDC)
- CSA/UL 60950 safety approved to +85°C

Look for more product Information on our website: www.RuggedCom.com

RuggedCom Inc. | 30 Whitmore Road, Woodbridge, Ontario, L4L 7Z4 | **www.RuggedCom.com**
ruggedinfo@RuggedCom.com | **Tel:** (905) 856-5288 | **Fax:** (905) 856-1995 | **Toll Free:** (888) 264-0006

Simplified Network Architecture



Wireless Specifications

- IEEE 802.11b/g compliant provides simultaneous support for both IEEE802.11b and IEEE802.11g wireless clients.
- Antenna type: Removable, upgradeable 3dBi Antenna with R-SMA (male) connector
- Operating channels/frequency-range:
  - 11 channels, 2.400 - 2.4720 Ghz (US, Canada)
  - 13 channels, 2.400 - 2.4835 Ghz (ETSI)
  - 14 channels, 2.400 - 2.4970 Ghz (Japan)
- Data rates:
  - IEEE 802.11b: 11/5.5/2/1 Mbps with automatic failback
  - IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps with automatic failback
- Modulation technology:
  - IEEE 802.11b: DSSS over CCK (11/5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
  - IEEE 802.11g: OFDM over 64QAM, 16QAM, QPSK, BPSK
- Transmit power:
  - IEEE 802.11b: 20dBm nominal @ 11 Mbps
  - IEEE 802.11g: 16dBm nominal @ 54 Mbps
- Receiver sensitivity:
  - IEEE 802.11b: -88dBm @ 11 Mbps with 8% FER
  - IEEE 802.11g: -74dBm @ 54 Mbps with 10% FER

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