

SIEMENS

Ingenuity for life

RUGGEDCOM

Defense and Federal Capabilities

Capabilities statement

Today, we defend and support our nations critical networks with communication solutions designed to survive the harshest environments. Siemens RUGGEDCOM continues to set the standard for reliability with full featured connectivity to meet the market demands of the most important customer;

The United States Government

We understand the challenges of protecting crucial information, optimizing security in hostile environments and providing for shared, secure networks.

Whether you need to protect against water, sand, dust, extreme heat or high levels of EMI, Siemens RUGGEDCOM has a network infrastructure solution.

We are the single supplier of the largest selection of Layer 2 and Layer 3 networking products supporting rugged applications.

We also provide solutions for Federal Utility networks with software, which can manage SCADA networks down to the intelligent electronic device. Our CROSSBOW solution provides cyber-secure local and remote user access to, and management of, all Intelligent Electronic Devices and their associated files.

Our Defense success includes tactical applications, shipboard control networks, aviation platforms, mobile radar units and many other applications.

Our products reliability is unparalleled and we underscore our commitment to quality with an industry leading five year warranty.

Many of our products have successfully tested to harsh environmental Military-Standards.

Ask us about our ability to meet MIL-STDs for your unique applications.



RUGGEDCOM features and designs

Rugged rated standards

- IEC 61850-3 and IEEE 1613
- Zero Packet Loss Technology
- Fiber ports for both short and long haul connections
- -40C to +85C without fans
- Single or Redundant Power Supplies for AC or DC power
- MIL-STD and IP 66/67 Ratings

Networking and communications

- Modular Platform Design
- Support for 10/100/1000 Copper or Fiber support for two to 48 ports
- Full 802.1Q switching support with eRSTP, QoS, VLAN, GVRP

Routing support

- VRRP, OSPF, RIP, BGP, DHCP Agent, NTP Server, Traffic Prioritization and IP Multicasting

Advanced features

- Application Processing Engine
- Multiple WAN Connectivity Options
- MPLS static label support
- Parallel Redundancy Protocol (PRP)
- DSCP marking and traffic shaping
- HSR – High Availability Seamless Redundancy
- MRP – Media Redundancy Protocol

Security functions

- Integrated Router/Firewall/VPN Full
- IPSEC VPN with 3DES, AES 128 and AES 256 support
- RADIUS Password Management
- Multi-level user passwords
- SSH/SSL 128 bit Encryption
- Enable and Disable Ports, MAC based port security
- Access Control 802.1x
- VLAN to separate secure traffic
- SNMP V3 Authentication
- Information Assurance
 - FIPS Approved
 - RMF Assessment

WAN features

- Frame Relay RFC1490 or RFC1294
- PPP, PAP CHAP Authentication
- IEC GOOSE messaging support
- T1, 56/54 DDS



Management features

- Web Based CLI Interfaces
- SNMP v1/v2/v3
- NETCONF
- Remote Monitoring
- Diagnostics with logging and alarms

Other solutions

- Serial Servers, Broadband Wireless (WiMAX), Media Converters, Power Injectors
- Hardened computing embedded on Windows 10 and Linux

Applications and government programs

Integration projects and applications

- Satellite Programs
- Tactical Vehicles
- Smart Grid Projects
- Mobile Grids
- Live Fire Ranges
- Shipboard Control Networks
- UAV/UAS
- Ground Based Radar
- Electric Power
- Hydropower
- AeroMACS



Contract vehicles

- GSA Schedule GS-35F-0511T
- NASA SEWP and NETCENTS

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Registration states

- Large Business
Cage Code – 58XK6
DUNS# – 167974216



NAICS codes

- 334119 – Other Computer Peripheral Equipment Manufacturing
- 334390 – Other Communications Equipment Manufacturing



RUGGEDCOM product portfolio – Solutions for mission critical harsh environments

5 Year Warranty Highly Configurable

Layer 3 Routers



- L2 and L3 switches/routers
- IEEE 1613 for EMI, IEC61850-3 for EMI
- -40C to 85C with passive cooling, fanless design

Layer 2 Switches



- High levels of vibration and shock – IEC 60255-21-1, IEC60255-21-2, IEC 61850, NEMA TS2, EN50121
- IP40 and optional conformal coating

Serial Servers and Media Converters



- Incorporating legacy serial devices onto Ethernet, copper to fiber conversion

Wireless Devices based on WiMAX, Wi-Fi, Cellular



- RUGGEDCOM WIN – “Next to last mile” remote applications using standards-based wireless solutions

Published by
Siemens Industry, Inc. 2019.

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U.S. Order No. RCBR-ODENS-0619
Printed in U.S.A.

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