# MIL-STD products

Military standard products are designed to operate in harsh environments and meet and exceed strict specifications of the defense industry.
**usa.siemens.com/ruggedcom**

The MIL-STD products provide a high level of immunity to vibration and shock impact, electromagnetic interference and heavy electrical surges typical of environments found in tactical defense operations. An operating temperature range of -40°C to +85°C coupled with hazardous location compliance enclosure allows the MIL-STD product family to be placed in virtually any location.

The embedded Rugged Operating System (ROS) provides advanced cybersecurity 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 MIL-STD products 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**
• Many different fiber port options available
• Long haul fiber support
•  High immunity to EMI and heavy electrical surges
•  -40°C to +85°C operating temperature (no fans)
• Mechanically retained electrical connectors
• Conformal coating for extra environmental protection
• Fully integrated dual redundant load sharing power supply option
• Universal high-voltage range: 120 V AC/DC and 230 V AC/DC
• Low voltage DC inputs: 12 VDC,24 VDC or 48 VDC
• Universal high-voltage range: 120 V AC/DC and 230 V AC/DC
• Low voltage DC inputs: 12 VDC, 24 VDC or 48 VDC



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## 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 or 2 x 100BASE-FX
• IP66/67 rated

Data Sheet:
M969

User Guide:
M969

Installation Guide:
M969

## RUGGEDCOM M2100
### 19-port modular managed Ethernet switch

• 3 x 1000BASE-X + 16 x 10BASE-FL/100BASE-FX-10/100BASE-X

Data Sheet:
M2100

User Guide:
M2100

Installation Guide:
M2100

## RUGGEDCOM M2200
### 9-port managed Gigabit Ethernet switch

• 1000BASE-X and/or 10/100/1000BASE-T

Data Sheet:
M2200

User Guide:
M2200

Installation Guide:
M2200

## RUGGEDCOM MX5000
### Multi-Service Platform

• High-density MIL-STD rated switch and router
• Supports up to 50 fiber or 98 copper ports
• PRP module option for seamless redundancy

Data Sheet:
MX5000

User Guide:
MX5000

Installation Guide:
MX5000

## RUGGEDCOM MX5000RE
### Multi-Service Platform with enclosure modular

• MIL-STD switching/routing platform
• IP65 EMI/EMC/shock/vibration-rated enclosure
• Replaceable enclosure

Data Sheet:
MX5000RE

User Guide:
MX5000RE

Installation Guide:
MX5000RE

### 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

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