Private wireless WAN solutions enable secure long-range connectivity, extending IP networks over long distances to fixed and mobile users.

RUGGEDCOM WIN family of products is the first field proven broadband wireless product portfolio designed for private networks, delivering the benefits of carrier-grade 4G technology to critical infrastructure applications in harsh environments. Its products are based on the IEEE 802.16e family of standards and third party validated to support interoperability with other vendors. As a unique capability the RUGGEDCOM WIN family products are able to operate without external servers, reducing initial capital outlay significantly, while maintaining features such as GOOSE over the air and mobility.

RUGGEDCOM WIN has been designed to cover vast territories with embedded GPS or IEEE1588 synchronization options to reduce self-interference and maximize frequency reuse. Moreover, the WIN products have the security feature set to enable organizations that provide critical infrastructure to be compliant with legal mandates and security guidelines. Specifically for mobility applications the RUGGEDCOM WIN product line is capable of maintaining session persistence with real time applications in an environment at vehicular speeds.

All RUGGEDCOM products are backed by a five year warranty and unsurpassed technical support.

Common features
- Available in multiple frequencies (2.3 GHz, 2.5 GHz, 3.5 GHz, 3.7 GHz, 4.9 GHz, 5.1 GHz, 5.8 GHz)
- 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

RUGGEDCOM Product information
General background information
RUGGEDCOM Brochures and information material

Product family RUGGEDCOM Wide area private wireless systems
Family brochure
RUGGEDCOM WIN for AeroMACS brochure

The tool for selection and configuration of RUGGEDCOM products.

RUGGEDCOM Selector
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)

Data Sheet:
WIN5158-5-AC
WIN5158-5-DC
User Guide:
WIN5100
Installation Guide:
WIN5158

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

Data Sheet:
WIN5258
User Guide:
WIN5100
Installation Guide:
WIN5258

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

Data Sheet:
WIN7258
User Guide:
WIN7200
Installation Guide:
WIN7200

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

Data Sheet:
WIN5158-V
User Guide:
WIN5100-V
Installation Guide:
WIN5158-V

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

Data Sheet:
WIN7035-5-PEC
WIN7035-5-SFA
WIN7035-5-SFD
User Guide:
WIN7000
Installation Guide:
WIN7000

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