



KONGSBERG

WM600 – Tactical Broadband Wireless Module

Robust transmission of broadband C4ISR-information

WM600 provides broadband wireless communications within Headquarters / Command Posts, between combat vehicles and between combat vehicles and dismounted soldiers.

Features

- **Broadband wireless networking between combat vehicles**
- **Advanced networking features including multi hop voice and data communication**
- **Fully IP based.**
- **Embedded AES256 encryption**
- **Flexibility in network capacity versus RF bandwidth**
- **Easy Intercom Integration**



WM600 brings the principles of Network Centric Warfare to the lowest level in the organization.

WM600 provides seamless extension of the wired LAN as to provide connectivity between C4ISR applications even when on the move.

WM600 is well suited to support long range C4ISR communication for sensor systems or between higher and lower echelons. Data rates of 2.5 Mbps are provided. Directional and omni directional antennas are provided for optimized use in different applications.



Direct voice connection to intercom systems is done through the optional analogue interface on the radio.

WM600 provides ad-hoc functionality for fast and easy establishment of networks. The user is ensured to reach intended destination for both voice and data communication with the multi hop capability of WM600.

WM600 operates without any Master in the network.

WM600 provides DHCP services and routing for connected LAN subscribers.

The software defined solution of SR600 and the radio's flexible software facilitates new services to be implemented in support of customer specific applications.

The wide range of applications requires a flexible and simple management system. Secure console and web-based management is supported as well as SNMP.

TacLAN supports mobile units and soldiers with multiple voice channels, situational awareness and high data capacity for video and C4I applications



Soldier Radio SR600



Vehicle Wireless Module WM600

NETWORK SERVICES

The WM600 provides an Ethernet interface with DHCP server capability to the local LAN of the vehicle. IP-based routing is provided within the network as well as towards external networks is provided. Multicast and unicast services are supported.

Management is web- or SNMP based.

RADIO FEATURES

The WM600 operates in the 225 to 400 MHz UHF band to provide a good balance between range in non-LOS terrain, data rate and RF power output. The radio has a selectable RF output, from 10mW to 5W.

The radio can provide different network capacities based on selected RF bandwidth and coding. The radio operates in a pure data radio mode or in a specific combined voice and data mode. Both modes are compatible with SR600 portable soldier radio.

Depending on chosen network capacity, the radio can handle a number of parallel voice networks and IP multi hop data networks in one RF network.

APPLICATION EXAMPLES:

Sensor systems, weapon systems, coastal surveillance, C4I systems



Sensor systems.



Weapon Systems



Coastal Surveillance



C4I Systems

ENVIRONMENTAL

The WM600 complies with MIL-STD 810F requirements to tactical equipment.

Specifications

Technical Data

Protocols

IP versions IPv4
LAN protocols Ethernet

Services

Network Service DHCP
External networks OSPF/RIP routing
Multi hop capability Voice and data

Management

RS232/ssh
Web (https)
SNMP

Network Capacity

Voice: up to 5 voice nets
Data rates: up to 2500 kbps
RF bandwidth: up to 5 MHz

RF Output

Frequency Range 225-400 MHz
Power 10 mW to 5 W

Interfaces

LAN IEEE 802.3
10 Base-T/TX
Audio Dual channel intercom interface

Power Supply

Input Voltage: 11-32 V DC

Operating temperature

-35°C to +55°C

Dimensions and Weight

Height: 138 mm
Width: 240 mm
Depth: 360 mm
Weight: 4.1 kg

This publication is not to be regarded as a complete system specification, or to be used as a contract document. We reserve the right to change the design or specifications without prior notice.

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