



## UM620 – TACTICAL BROADBAND WIRELESS MODULE

Robust broadband wireless connection for mobile combat zone users

UM620 operates without any Master in the network. UM620 provides ad-hoc functionality for fast and easy establishment of networks.

Voice connection to intercom systems is utilized through digital or analogue interface.

UM620 provides DHCP services and routing for connected LAN subscribers.

Multi hop capability ensures the user to reach intended destination for both voice and data.

The software defined solution of UM620 and the radio's flexible software facilitates new services to be implemented in support of customer specific applications.

The UM620 is easy to use, and managed using the integrated web-based management system or by using the SNMP interface.

### DISMOUNTED CAPABILITY

The UM620 is fully compatible with the soldier radio SR600, and enables integration between vehicles and dismounted troops.

### NETWORK SERVICES

The UM620 provides an Ethernet interface with DHCP server capability to the local LAN of the vehicle.

Various IP routing services are provided within the radio network as well as towards external networks. Multicast and Unicast services are supported.

### FEATURES

- Broadband wireless networking
- Advanced features including multi hop voice and simultaneous data communication
- Fully IP based
- Embedded AES256 encryption
- Flexibility in network capacity versus RF bandwidth
- Flexible mounting and easy intercom integration



## RADIO FEATURES

The UM620 operates from 225 to 400 MHz to provide a good balance between range in non-LOS terrain, data rate and RF power output. The radio has proven multipath capabilities and selectable RF output from 100mW to 20W.

The radio can provide different network capacities based on selected RF bandwidth and coding.

The radio may operate in a pure data radio mode or in combined voice and data modes. Dynamic configuration of wave-form is possible.

## SOFTWARE DEFINED NETWORKING

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

## FLEXIBLE MOUNTING

The UM620s small size and weight allows for flexible mounting in the Power Mounting Unit (PMU) or in a combined Dual Channel Radio mount.

## ENVIRONMENTAL

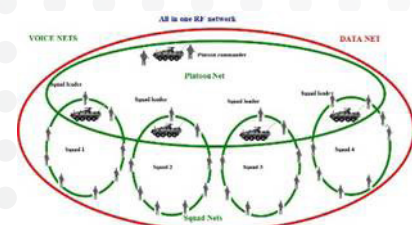
The UM620 complies with MIL-STD 810G requirements to tactical equipment.



Soldier Radio SR600



Vehicle Wireless Module UM620



BMS Voice & Data network

## SPECIFICATIONS TECHNICAL DATA

### PROTOCOLS

IP versions IPv4 / IPv6

LAN protocols Ethernet

### SERVICES

Network Service DHCP

External networks OSPF/RIP/Static routing

Multi hop capability Voice and data

Multicast

Unicast

### MANAGEMENT

Web (https)

SNMPv3

### RF CHARACTERISTICS

Frequency Range 225-400 MHz

Power 100mW to 20 W

### NETWORK CAPACITY

Voice: up to 5 voice nets

Data rates: up to 2500 kbps

RF bandwidth: up to 5 MHz

### INTERFACES

LAN IEEE 802.3  
10/100 Base-T/TX

Audio Dual channel

GPS External

Internal

### POWER SUPPLY

Input Voltage

11-32 V DC

### OPERATING TEMPERATURE

-35°C to +55°C

### DIMENSIONS AND WEIGHT

Height: 55 mm

Width: 245 mm

Depth: 156 mm

Weight: 2.2 kg

# WORLD CLASS

- through people, technology and dedication

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