

# VWIS-1V

## Ground Vehicle Wireless Intercom System©



### Features

- Low cost telecommunication for battle tanks and infantry fighting vehicles
- Ideal for retrofitting
- One solution for all platforms: battle tanks and infantry fighting vehicles
- Digital interface with Enhanced Position Location and Reporting System or Battle Management System

A VWIS-1V System for a infantry fighting vehicles and tanks, providing voice, data and platform management services to 4 or 8 users.

SMA PROGRESS **VWIS-1V** will form the core of the vehicles' communications systems. It integrates the Battle Management System, the radios and telephone services, and provides interoperability between radio networks (UHF, VHF, HF) and with Wide Area Networks. Vehicle intercom and Ethernet LAN services are provided, and the system allows further integration of Battle Management System, vetrronics services, inter-platform communications, wireless LAN services on demand and advanced soldier systems. Ad hoc networking appears to be a particular strength. In addition to wired (fibre and electrical) networks, VWIS-1V provides ad-hoc WLAN networking with multi-hop routing, enabling random network topologies.

The **key elements** of the system are the **VWIS-1V**© the Tactical User Station (TUS), Tactical User Node (TUN), User Node (UN), Wireless User Station (WUS), Wireless User Node (WUN), Wireless Antenna (WA).



**Tactical User Station (TUS)**



**Wireless User Node (WUN)**

## Specifications

WUS & WUN Frequency Range: 1.88 – 1.90 GHz  
WUS RF Output Power: 10 mW  
Communication Range: 200 m  
WUS Dimensions: 120 x 60 x 190 mm;  
WUS Weight: 900 g

WUN Dimensions: 70 x 130 x 40 mm;  
WUN Weight: 250 g

WA Dimensions: 60 x 70 x 60 mm;  
WA Weight: 60 g

TUS Dimensions: 260 x 127 x 269 mm;  
TUS Weight: 3.7 kg

TUN Dimensions: 173.5 x 47 x 208 mm;  
TUN Weight: 1.2 kg

UN Dimensions: 137.5 x 32 x 55 mm;  
UN Weight: 500 g

Power Supply: 22.5-28.5V, DC  
Control: RS422 or RS485, Ethernet  
Operation Temperature: -55 to +60 C  
Vibration, Shock: MIL-STD-810D  
Supply variations: MIL-STD-704D  
EMC: MIL-STD-461C  
MTBF: 5,000 hours

**For more information about VWIS-1V©, please contact:**

SMA PROGRESS,LLC; Russian Federation. Fax: + 7. 498. 303. 5073 or e-mail: [info@mriprogress.ru](mailto:info@mriprogress.ru)