

AT23701 MANET IP RADIO



AT23701 is a broadband ruggedized **MANET IP Radio** designed to create peer-to-peer tactical wireless data networks, allowing the simultaneous transmission of data, video and voice.

The radio provides **secure, dynamic routing** and the ability to immediately reroute the data following changes in network topology. These properties determine the radio being an ideal solution for the communications of military tactical units on the move.

AT23701 is equipped with a GPS module and two, optionally four, radio interfaces.

The easy installation and set up allows the use of AT23701 in static or mobile platforms.

The radio can be used individually or with the AT23801 MANET IP Radio Router as part of the **B2R Broadband Radio Router**.

SERVICES

- Mobile Ad Hoc Networking (MANET)
- IPv4 and IPv6 compatibility with integrated serial-to-Ethernet capability
- Optional 2 or 4 radios in one device with the possibility of access to 802.11a/b/g network
- Transmission speed up to 41 Mbps UDP and 31 Mbps TCP
- Frequency ranges: 907-922 MHz, 1.35-1.39 GHz, 2.3-2.5 GHz, 2.4 GHz, 4.4-4.8 GHz, 4.8-4.9 GHz, 4.9 GHz, 5.1-5.9 GHz
- Wave Relay[®] over IP (WRoIP)
- GPS receiver with support of Cursor-on-Target (CoT) format
- Support of Dynamic Link Exchange Protocol (DLEP) routing protocol for radio links
- FIPS 140-2 hardware encryption with AES-CTR-256
- Advanced IP multicast algorithms
- Integrated DHCP server
- Support of standard headsets using NATO U-283/U connector
- Support of Radio-over-IP (RoIP) with use of the G.711 codec
- Remote management and configuration of the radio from AT23801
- Remote ON, OFF and safe deletion of the radio configuration from AT23801
- Switching of talk groups from AT23801
- Internal voice communication with AT23801

AT23701

MANET IP Radio



TECHNICAL SPECIFICATION

INTERFACES

- 1 x connection of AT23801 (electrical power, Ethernet, Audio, Management)
- 1 x headset and RS-232
- 2 x radio antenna
- 2 x radio antenna (optional)
- 1 x GPS antenna

TECHNICAL PARAMETERS

Power Supply: 10-32V DC
 Nominal Value: 24V DC
 Operating Temperature: -30°C - +70°C
 Storage Temperatures: -50°C - +85°C
 Dimensions (d x w x h mm): 160 x 220 x 44
 Weight: 1.7 kg
 Protection: IP67

STANDARDS

Temperatures/Vibrations/Shocks: . MIL-STD 810
 EMC Emission/Susceptibility: MIL-STD 461
 Climatic Environment: MIL-STD 810