

AT10103 DATA CONTROL UNIT mini



AT10103 is an IP based, rugged, tactical data radio gateway with the capability of forming **MANET** Mobile Ad-hoc Networks **via narrow band radios**.

The device provides **physical, data link and network data transmission layers** for vehicular or personal workstations using a communication environment created by HF/VHF/UHF radios, integrated WiFi devices, Ethernet links, satellite terminals, etc.

AT10103 optimizes communications in networks with low bandwidth and higher delays using **proprietary UDP protocol**.

The device provides **dynamic routing** of command and control system application data, selecting the communication channel with the highest available transfer rate.

Its **small and lightweight design** is suitable for use in portable or personal applications.

SERVICES

- Auto selection of WAN communication channel (wire, radio, WiFi, SATCOM)
- Automatic detection and exchange of identification data between the DCUs via WAN
- Local connection of PC and/or LAN
- Automated and dynamic routing of user application data via WAN and LAN
- Manual operation of the DCU (radio silence, crypto reset)
- Visual cueing of the DCU status
- Acquisition and distribution of GPS data independent of a C2 application
- Local management and configuration of the DCU
- Management and upload of data and configuration to all DCUs in WAN (option to switch off this feature for security reasons)
- Option to activate an internal crypto feature with optional keys upload from an external source
- Option to record data communication
- Fully automated operation of the DCU
- Option to create Ethernet VLANs

AT10103

DATA CONTROL
UNIT mini



TECHNICAL SPECIFICATION

INTERFACES

- 1 x WAN (1 x Serial Async/Sync + 1 x Ethernet + 1 x analog FSK1200 modem)
- 1 x LAN (2 x Ethernet, 1 x Serial Async/Sync)
- 1 x power
- 1 x console
- 1 x GPS antenna
- 1 x WiFi antenna
- 1 x crypto loading

TECHNICAL PARAMETERS

Power Supply: 12-35V DC
 Nominal Value: 24V DC
 Power Consumption: 250 mA
 Operating Temperature: -30°C - +55°C
 Storage Temperature: -50°C - +70°C
 Dimensions (d x w x h mm): 140 x 116 x 44
 Weight: 0.9 kg
 Protection: IP67

MILITARY STANDARDS

Temperatures/
 Vibrations/Shocks: MIL-STD 810F(G)
 EMC Emission/Susceptibility: MIL-STD 481E
 Climatic Environment: MIL-STD 810C