

## AT10102 DATA CONTROL UNIT



AT10102 Data Control Unit (DCU) delivers ability to form mobile Ad-hoc networks MANET. It provides physical, data link and network data transmission layers for vehicular workstations using communication environment created by HF/VHF/UHF radios, WiFi devices, Ethernet cables, satellite terminals, etc.

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

## SERVICES

- Autoselection of WAN communication channel (wire, radio, WiFi, SATCOM)
- Automatic detection and exchange of identification data between the DCUs in WAN environment
- Local connection of PC and/or LAN
- Automated and dynamic routing of user application data via WAN and LAN
- Manual operation of the DCU (operation, radio silence, crypto reset modes)
- Visual cueing of the DCU status
- Acquiring and distribution of GPS 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 device with optional keys' upload from an external source
- Record of data communication
- Fully automated operation of the DCU
- Option to create security VLANs
- Option of SW transfer to radio silence

### AT10102

DATA  
CONTROL  
UNIT



## TECHNICAL SPECIFICATION

### INTERFACES

- 4 x WAN (Serial Async/Synch + Ethernet) – for radio, cable, SATCOM, WBR
- 5 x LAN (1 x PC, 1 x ext. WiFi, 1 x ext. Ethernet/Service, 1 x local Ethernet, etc.)
- 1 x GPS antenna
- 1 x crypto loading
- 1 x internal WiFi antenna
- 1 x electrical power

### TECHNICAL PARAMETERS

Power Supply: ..... 12-35V DC  
Nominal Value: ..... 24V DC  
Operating Temperature: ..... -30°C to +55°C  
Storage Temperature: ..... -50°C to +70°C  
Humidity: ..... 98%  
Protection: ..... IP67

### STANDARDS

Temperatures/  
Vibrations/Shocks: ..... MIL-STD 810F(G)  
EMC Emission/Susceptibility: ..... MIL-STD 461E  
Climatic Environment: ..... MIL-STD 810C