COMTAG®

Communication Tactical Gateway

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.

ALITER TECHNOLOGIES

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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

TECHNICAL SPECIFICATION

AT10102

DATA CONTROL UNIT

INTERFACES

- 4 x WAN (Serial Async/Synch + Ethernet) – for radio, cabel, 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