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VHF P25 Desktop Radio - Advance Configuration

General Properties

- Multi-system structure
- Supported protocols
  - P25 Conventionel
  - P25 Trunk
  - P25 Direct Mode
- Communications in digital and analog channels
- Software encryption or hardware encryption
- File transfer through USB connector
- Support for different languages

Receiver-Transmitter Architecture

- 8GB storage
- ARM based processor
- Linux operating system
- Internal GPS module
- USB connector
- Ready for though environmental conditions

Menus and Functional Properties

- Zone/Channel Selection
- Channel/Group Scan
- SMS
- User and System Profiles
- Caller ID
- Group Call
- Individual Call
- Status Messages
- Volume Settings
- Settings
- Phone Book
- Data Communication Through PC connection

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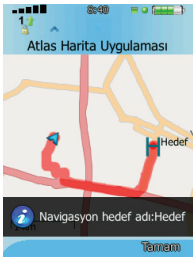
VHF P25 Desktop Radio - Advance Configuration

Map Application Features

Vector and raster maps

Instant speed and direction



Route identification (navigation)

Blue Force Tracking

Rich Portfolio of Applications

Map application

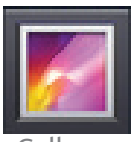
Message application

Query application

Notepad

Calendar

Calculator



Gallery

Music player

Office applications

Printer application

Custom applications can be uploaded based on the user's needs

Standards

IEC 61149	MIL-STD-810C/D/E/F/G
ETSI EN 300 086-2	TTTE Directive
ETSI EN 300 113-2	TIA-102.CAAB-D
ETSI EN 301 489-1,5	TIA-603-D
ETSI EN 60950	

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VHF P25 Desktop Radio - Advance Configuration

General Technical Specifications

Weight	2425 g
Weight (fan included)	2495 g
Dimensions	61 x 177 x 246 mm (HxWxD)
Operating Temperature Range	-30°C /+60°C
Storage Temperature Range	-40°C /+85°C
Power Supply	13,6±20%Vdc
Processor	ARM9
Operating System	Linux

Receiver Technical Specifications

Frequency Range	136-174 MHz
Sensitivity	≤-119 dBm
Intermodulation Rejection	≥75 dB
Audio Distortion	≤ 5% (At nominal audio level) ≤ 5%(under the nominal audio level 17dB)
Bit Error Rate	≤ 0,01 %
BStandby Current- Receiver (Rx) Current	≤500 mA, ≤1,2 A

Transmitter Technical Specifications

Frequency Range	136-174 MHz
Output Power	10-90 W
Frequency Accuracy	≤ 0,5 ppm
Modulation Fidelity	≤ %3
Transmitter (Tx) Current	≤ 8,0 A

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VHF P25 Desktop Radio - Advance Configuration

Desktop Control Unit Technical Properties

Weight	600 g
Dimensions	65 x 162 x 188 mm (HxWxD)
Operating Temperature Range	-30°C /+60°C
Storage Temperature Range	-40°C /+80°C
Processor	ARM Cortex-M4
Screen	1,8 inch 64x128 pixel OLED

Desktop Control Unit

Tablet Control Head Technical Properties

Weight	880 g
Dimensions	160 x 214 x 28 mm
Operating Temperature Range	-20°C /+50°C
Storage Temperature Range	-30°C /+70°C
Processor	ARM Cortex-A8
Operating System	Android 4.1.2
Screen	7” 800 x 480 Multi-touch LED
Battery	3800 mAh battery
Memory	64 GB
Connection Interface	Micro USB
Wi-Fi (Optional)	802.11 b/g/n (2.4 GHz)

Tablet Control Head

Docking Unit Technical Properties

Weight	435 gr
Dimensions	73 x 220 x 67 mm
Operating Temperature Range	-30°C /+60°C
Storage Temperature Range	-40°C /+80°C
Connection Interface	USB (4 piece)
Connectable Devices	Mouse, keyboard, camera, printer, USB memory, etc.

Docking Unit

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VHF P25 Desktop Radio - Advance Configuration

Applicable Applications/Services

Map Application

- Supports vectoral maps. Shows city/ districts, streets and main roads
- Supports rather maps. Shows geographical formations as sea, mountain,desert.
- Monitorize important locations/points as hospital, school and other public buldings(POI: Point Of Interest).
- Important locations/points can be defined by users.
- It supports decimal degrees, degress-minutes-seconds, UTM and MGRS coordinate systems. A position defined by one of these coordinate systems can be converted to other coordinate systems in both WGS84 and ED50 datums.

Blue Force Tracking Services

- Locations of radios with GPS modules;
  - On a computer directly connected to the system in the center of the communication system.
  - Through software running on a computer connected to a radio.
  - It can be viewed directly by the authorized users via the map application on the radio screen. This feature can be used to provide coordination between personnel and patrols on the scene.
- At the same time in the wide area system mode, the position of the 10 different GPS radios can be monitored via the radio screen. Coordinates of these radios are automatically updated at certain intervals via the system. This service can also be used in simplex and direct modechannels.(Depending on user needs and with a limited scenario)

Message Application

- Computer user at the system can be send messages to other operators or other 4900 radio users, without using an external computer.
- Images and Office files can be added and viewed.
- Messages can be sent in predefined formats
- Texts can be entered on the screen with the software-based keyboard or with a keyboard connected to the device.

Query application

Radio users are able to query through the databases used by their institutions without requiring a computer in the area they are responsible.

Gallery

Image files such as drawings and photos uploaded to the devices can be viewed through the gallery.

Music Player

Audio files, such as start and speech recording, loaded on the devices can be played back via the music player.

Note Pad

Through the notebook in the device, the user can take notes and view previously received notes.

Calendar

Thanks to the calendar on the device, the user can view day, month and year information.

Calculator

Users can make account calculations through the calculator on the device.

Office applications

Office documents with txt.pdf, doc, xls, xlsx, ppt abd pptx extensions can be created with Office application.

Printer application

The printer application can be used to retrieve the output of the Tablet Application Header image and office files from the printer connected to the Docking unit. It supports both dot-matrix and laser printers.

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VHF P25 Desktop Radio - Advance Configuration

The Desktop Control Unit used with the 4900 Atlas Desktop Radio is running applications developed for the Android operating system.

The used of Android operating system provides an infrastructure to support new applications that will be developed, in addition to the currently supported applications.

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