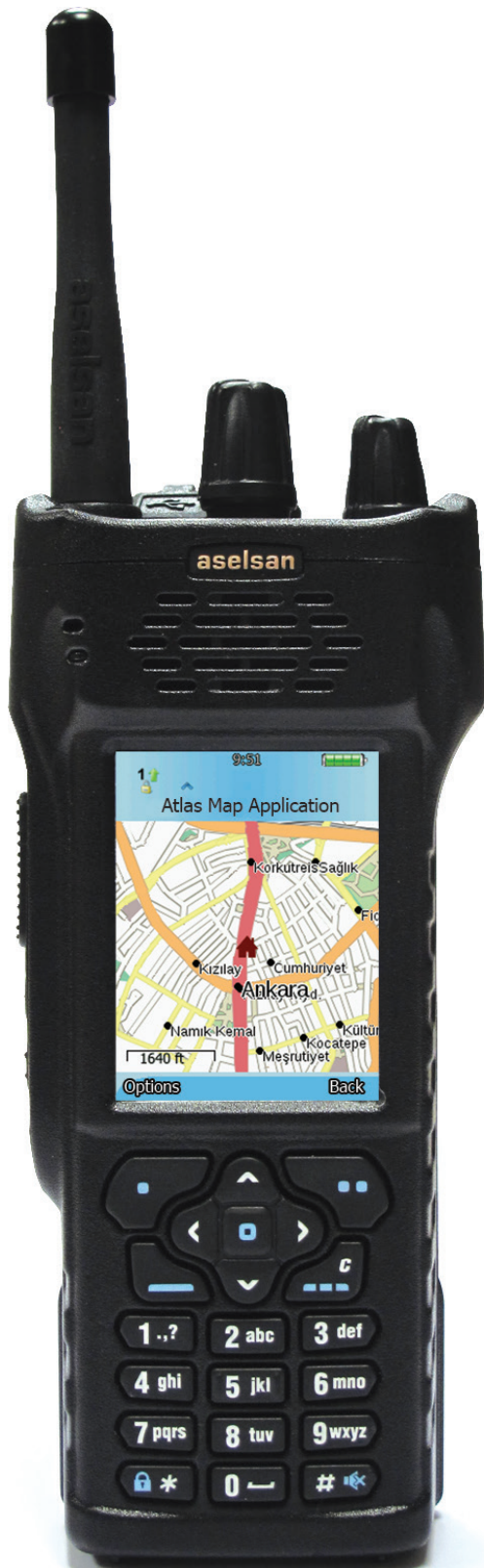




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VHF P25 Portable Radio with GPS



General Properties

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

Device Architecture

- 8GB storage
- ARM based processor
- Linux operating system
- 2600mAh battery
- Internal GPS module
- 2.4" Daylight readable QVGA colored LCD display (240x320)
- USB connector
- Ready for tough environmental conditions
- Two microphones (to reduce the ambient noise)

Functional Properties

Interfaces

- On/Off Button
- 2 Programming buttons
- 5 Navigation Keys
- 12 Alphanumerical Keys
- Microphone
- Rx/Tx LED
- Push-to-Talk Button
- Emergency Button

Menus/System Services

- Zone/Channel Selection
- Group Call
- Channel/Group Scan
- Individual Call
- SMS
- Status Messages
- User and System Profiles
- Volume Settings
- Caller ID
- VOX (Only With Audio Accessories)
- Phone Book
- Data Communication Through PC connection
- Integrated Data Applications
- Settings

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VHF P25 Portable Radio with GPS

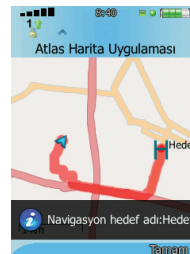
Map Application Features



Vector and raster maps



Instant speed and direction

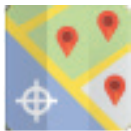


Route identification (navigation)



Blue Force Tracking

Rich Portfolio of Applications



Map application



Data applications



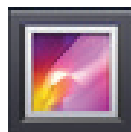
Notepad



Calendar



Calculator



Gallery



Music player



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	R&TTE Directive
ETSI EN 300 113-2	TIA-102.CAAB-D
ETSI EN 301 489-1,5	TIA-603-D
ETSI EN 60950	

General Technical Specifications

Weight	490g (including battery)
Dimensions (excluding bulges and knobs)	149 x 56 x 37 mm (HxWxD)
Dimensions (EIA)	168 x 71 x 46 mm (HxWxD)
Operating Temperature Range	-30°C /+60°C
Storage Temperature Range	-40°C /+85°C
Power Supply	7,5 ±20%Vdc
Processor	ARM9
Memory	8GB
Operating System	Linux



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VHF P25 Portable Radio with GPS

Receiver Technical Specifications

Frequency Range	136-174 MHz (VHF)
Sensitivity	≤-119 dBm (VHF)
Intermodulation Rejection	≥70 dB
Audio Distortion	≤ 5% (rated audio power) ≤ 5% (17dB below rated audio power)
Spurious Response Rejection	≥70 dB
Bit Error Ratio	≤ 0,01 %
Hum and Noise Ratio	≥40 dB @25 kHz ≥34 dB @12,5 kHz

Transmitter Technical Specifications

Frequency Range	136-174 MHz (VHF)
Transmission Power	0,2-5W
FM Noise Ratio	≥40 dB@ 25 kHz ≥34 dB@ 12,5 kHz
Frequency Accuracy	≤2,5 ppm

Integrated GPS Specifications

Number of Channels	12
Tracking Sensitivity	-159 dBm
Navigasyon Sensitivity	-157 dBm
Deviation	<15 m

Battery Specifications

Type	Capacity (mAh)	Duty Cycle 10-10-80*	Duty Cycle 5-5-90*	Weight	Dimensions (HxWxD) (mm)
Li-Ion	2600	>8 hours	>14 hours	158/179g (Without/with clip)	122x56x19/30 (Without/with clip)

* Results had been recorded in Digital mode with 5W output power in normal conditions for TIA 603-D.



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VHF P25 Portable Radio with GPS

Applicable Applications/Services

Map Application



Thanks to the

- POI visualizing,
- route identification and
- goal setting capabilities

of the map application designed by Aselsan, missing-critical users, who does search and rescue in city centers or rural areas, can perform their duties completely and quickly.

- Supports vectoral maps. Shows city/districts, streets and main roads.
- Supports raster maps. Shows geographical formations as sea, mountain, desert.
- Monitorize important locations/points as hospital, school and other public buildings (POI: Point Of Interest).
- Important locations/points can be defined by users.
- Routes can be created up to 20 stops.
- The route to be tracked to reach the destination is displayed with the instantaneous position and speed information.
- GPS satellite signals are tracked in real time and location information is recorded periodically.
- Navigation capability is available.
- It supports decimal degrees, degree-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 mode channels. (Depending on user needs and with a limited scenario)

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

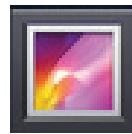


Image files such as drawings and photos uploaded to the devices can be viewed through the gallery.

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.

The 4900 Atlas Handheld is running applications developed for the Linux operating system. The use of the Linux operating system provides an infrastructure to support new applications that will be developed in addition to the currently supported applications.

aselsan

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