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UHF DMR Portable Radio with GPS



General Properties

- Analog and Digital Mode
- Appropriate to DMR Standart
- User Notifications and Alerts
- LCD Screen
- Alphanumeric Keypad
- Graphical User Interface
- Call Log
- Caller ID
- 3 Level RF Power Level
- Channel Search
- VOX (with Audio accessories)
- Sending Time Limit
- Menu Authorization
- Computer Aided Repair
- Show and Send Location Via External GPS
- Appropriate to MIL-STD-810C/D/E/F/G Standards
- Appropriate to ETSI 300-086 (Analog), ETSI 300-113 (Digital:DMR) Standards
- Backward compatibility in analogue mode

Digital Mode Properties

- Group Call
- Individual Call
- Emergency Call
- SMS (Radio to Radio)
- Data Communication (with data software pack)
- Status Message
- Encryption (Optional)
- Phone Book
- Call Alert

Standarts

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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General Technical Specifications

Modulation	Analog FM, 4FSK (DMR)
Channel Range	12,5 / 25 kHz (Analog) 12,5 kHz (DMR)
Data Speed (Digital)	1,8 kb/s
Voice Encoder	AMBE++
Encryption Algorithms	AES
Channel Numbers	256
Power Supply	7,5 Vdc $\pm$ 20%
Screen	64 x 128 pixel LCD
Keypad	18 key (backlit)
Dimensions (without battery)(HxWxD)	130 x 58,5 x 17 mm (except borders)
Weight (Except Antenna and Battery)	215 g
Operation Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	95% @ 50°C

Receiver Technical Specifications

Frequency Range	380-470 MHz
Sensitivity	$\leq$ -116 dBm
Intermodulation Rejection	$\geq$ 65 dB
Spurious Response Rejection	$\geq$ 70 dB
Audio Distortion	$\leq$ 5%

Transmitter Technical Specifications

RF Output Voltage	1-5 W
Frequency Accuracy (-30°C / +60°C; 25°C ref)	$\pm$ 2 ppm
Transmitted Spurious Broadcasting	-36 dBm @ < 1 GHz

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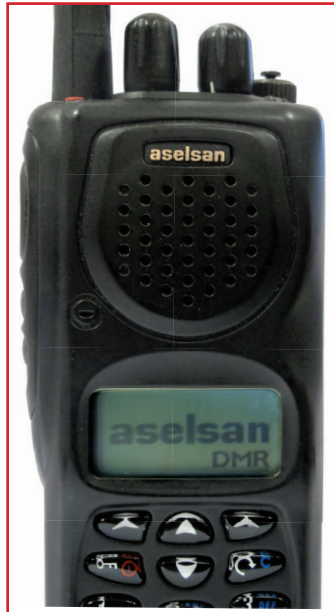
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Integrated GPS Specifications

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



Integrated GPS



DMR



Audio and Channel Pots

Battery Specifications

Type	Capacity (mAh)	Duty Cycle 5-5-90 Running* @5W	Weight (g)	Dimensions (HxWxD) (mm)
High Capacity Ni-MH	1900 mAh	> 15 hour (with power saving)	205	110 x 51 x 18
High Capacity Li-Ion	2300 mAh	> 18 hour (with power saving)	150	110 x 51 x 24

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