

4725

UHF APC025 Mobile Radio



General Properties

- Analog and Digital Mode
- Appropriate to P25 Standard
- User Notifications and Alerts
- LCD Screen
- Alphanumeric Keypad
- Graphical User Interface
- Call Log
- Caller ID
- 3 Level RF Power Level
- Channel Search
- 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 TIA-102.CAAB-D and TIA-603-D standards

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

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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General Technical Specifications

Modulation	Analog FM, C4FM (P25)
Channel Range	12,5 / 25 kHz (Analog) 12,5 kHz (P25)
Data Speed (Digital)	9,6 kb/s
Voice Encoder	4,4 kb/s IMBE
Encryption Algorithms	DES-OFB, AES
Channel Numbers	999
Power Supply	13,6 Vdc \pm 20%
Screen	64 x 128 pixel LCD
Keypad	20 key (backlit)
Dimensions (HxWxD)	46 x 165 x 165 mm (except borders)
Weight	1,50 kg
Operation Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	95% @ 50°C

Receiver Technical Specifications

Frequency Range	380-470 MHz
Audio Output Power*	7,5 W / 8 Ω
Sensitivity	
TIA 12dB SINAD / 5%BER**	\leq 0,25 μ V
ETSI 20dB SINAD / 1%BER	\leq 0,35 μ V
Intermodulation Rejection*	\geq 75dB
Spurious Response Rejection*	\geq 80 dB
Receiver Noise Ratio 25 kHz Channel	\geq 42 dB
12,5 kHz Channel	\geq 36 dB
Audio Distortion*	\leq 3%

Transmitter Technical Specifications

RF Output Voltage *	10-30 W
Frequency Accuracy * (-30°C / +60°C; 25°C ref)	\pm 1,5 ppm
Modulation Limitation * 25 kHz channel	\pm 5,0 kHz
12,5 kHz channel	\pm 2,5 kHz
Transmitted Spurious Broadcasting*	\leq -20 dBm

* Values are measured in analog mode in accordance with EIA-603 under normal conditions.

** Values are measured in digital mode in accordance with TIA 102-CAA in accordance with normal conditions.

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