

# 4735

## UHF P25 Desktop 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
- 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 Number	999
Nominal Power Supply	13,6 Vdc
Screen	64 x 128 pixel LCD
Keypad	20 key (backlit)
Dimensions (HxWxD)	67 x 297 x 227 mm
Power Supply Dimensions (HxWxD)	67 x 297 x 212 mm
Weight	3,50 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*	7W / 8 Ω
Sensitivity	
TIA 12dB SINAD / 5%BER**	≤0,25μV
ETSI 20dB SINAD /1%BER	≤0,35μV
Intermodulation Rejection *	≥80dB
Spurious Response Rejection *	≥ 90 dB
Receiver Noise Ratio	
25 kHz channel	≥ 42 dB
12,5 kHz channel	≥ 36 dB
Audio Distortion *	≤ 3%

### Transmitter Technical Specifications

RF Output Power *	10-70 W
Frequency Accuracy * (-30°C / +60°C; 25°C ref)	± 1,5 ppm
Modulation Limitation * 25 kHz channel 12,5 kHz channel	±5,0 kHz ±2,5 kHz
Transmitted Spurious Broadcasting*	≤ -20 dBm

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

\*\* Values were measured in digital mode in accordance with TIA 102-CAAA under normal conditions.

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