

4700

RADIO FAMILY

General Properties

- Analog and Digital Operations on a Single Radio
- Compatible with P25, SK2 (Aselsan proprietary protocol) or DMR
- Configurable User Informative Alerts
- LCD Display
- Alphanumeric Keypad
- Graphical User Interface
- Call Logging
- Caller ID
- 3-Level RF Output Power
- Channel Scan
- VOX (Only With Audio Accessories)
- Transmit Time-out Timer
- Configurable Menu Options
- Computer Based Maintenance
- Compatible with MIL STD 810 C/D/E/F/G
- Conformity with EIA/TIA-102.CAAB-D, EIA/TIA-603-D and ETSI TS 102 361 standards.
- Backward compatibility in analog mode

Digital Mode Features

- Group Call
- Individual Call
- Emergency Call
- SMS (Radio to Radio)
- Data Transmission (With Data Software Set)
- Status Messages
- Encryption (Optional)
- Phone Book
- Call Alert



Portable



Desktop



Mobile

4700

RADIO FAMILY

General Technical Specifications

Modulation	Analog FM, C4FM (P25), 4FSK (DMR)
Channel Spacing	12.5 / 25 kHz (Analog) 12.5 kHz (P25, DMR)
Vocoder	4.4 kb/s IMBE (P25) AMBE++ (DMR)
Encryption Algorithms	DES-OFB, AES
Channel Capacity	999 (P25), 256 (DMR)
Operating Voltage	Portable : 7.5 Vdc \pm 20% Mobile : 13.6 Vdc \pm 20% Desktop : 13.6 Vdc \pm 20 %
Display	64x128 pixel LCD
Keypad	Portable :18 keys with backlight Mobile and Desktop: 20 keys with backlight
Dimensions of Portable Radio (without battery) (HxWxL)	130x58.5x17 mm (projections not included)
Weight of Portable Radio (without antenna and battery)	210 g
Dimensions of Mobile Radio (HxWxD)	46x165x165mm (projections not included)
Weight of Mobile Radio	1.50kg
Desktop Radio Dimensions	67x297x227 mm (HxWxD)
Desktop Radio's Power Supply Dimensions	67x297x212 mm (HxWxD)
Weight of Desktop Radio	3.5 kg
Operating Temperature Range	-30°C/+60°C
Storage Temperature Range	-40°C /+85°C
Humidity	95% @ 50°C

Receiver Technical Specifications

	VHF	UHF
Frequency Range	136-174 MHz	380-470 MHz
Rated Audio Output Power	Portable : 1 W / 8 Ω	1 W / 8 Ω
	Mobile : 7.5 W / 8 Ω	7.5 W / 8 Ω
	Desktop : 7 W / 8 Ω	7 W / 8 Ω
Sensitivity (P25)	Portable : \leq -119 dBm	\leq -118 dBm
	Mobile : \leq -120 dBm	\leq -119 dBm
	Desktop : \leq -120 dBm	\leq -119 dBm
Sensitivity (DMR)	\leq -117 dBm	\leq -116 dBm
Intermodulation Rejection	Portable: \geq 73dB (P25), \geq 65 dB (DMR)	\geq 73dB (P25), \geq 65 dB (DMR)
	Mobile: \geq 75dB (P25), \geq 70 dB (DMR)	\geq 75dB (P25), \geq 70 dB (DMR)
	Desktop: \geq 80dB (P25), \geq 70 dB (DMR)	\geq 80dB (P25), \geq 70 dB (DMR)
Spurious Response Rejection	Portable : \geq 70 dB (P25), \geq 70 dB (DMR)	\geq 70 dB (P25), \geq 70 dB (DMR)
	Mobile : \geq 80 dB (P25), \geq 70 dB (DMR)	\geq 80 dB (P25), \geq 70 dB (DMR)
	Desktop : \geq 90 dB (P25), \geq 70 dB (DMR)	\geq 90 dB (P25), \geq 70 dB (DMR)
Hum and Noise Ratio (P25)	25 kHz channel: \geq 40 dB	\geq 40 dB
	12.5 kHz channel: \geq 34 dB	\geq 34 dB
Audio Distortion	\leq 3 % (P25) / \leq 5 % (DMR)	\leq 3 % (P25) / \leq 5 % (DMR)

Transmitter Technical Specifications

Rated RF Output Power	Portable: 1-5 W	1-5 W
	Mobile: 10-40 W	10-30 W
	Desktop: 10-90 W	10-70 W
Frequency Stability (-30°C / +60°C; 25°C ref)	\pm 2.5 ppm (P25)	\pm 1.5 ppm (P25)
	\pm 2 ppm (DMR)	\pm 2 ppm (DMR)
Modulation Limiting (P25)	25 kHz channel \pm 5.0 kHz	\pm 5.0 kHz
	12.5 kHz channel \pm 2.5 kHz	\pm 2.5 kHz
Conducted Spurious Emissions	\leq -20 dBm (P25)	\leq -20 dBm (P25)
	-36 dBm @ < 1 GHz (DMR)	-36 dBm @ < 1 GHz (DMR)

Portable Radio Batteries

Battery Type	Dimensions (HxWxL)	Weight	Capacity	Duty Cycle* (5-5-90) @5W
High Capacity Ni-MH	110x51x18 mm	205 g	1900 mAh	\geq 15 h (With power saving)
High Capacity Li-Ion	110x51x24 mm	150 g	2300 mAh	\geq 18 h (With power saving)

* Measured in the digital mode per TIA 603.D under nominal conditions at 5.0 W RF output power

Specifications are subject to change without any notice. | All tolerances are within \pm 10%.

