

# aselsan



## DMR 4700 Mobile Radio

### Digital Mode Specifications

- Individual Call
- Group Call
- Emergency Call
- SMS
- Integrated Voice and Data Services
- Index

### General Specifications

- Analog and Digital Mode Options
- Convenient to ETSI 300-086 (Analog), ETSI 300-113 (Digital:DMR) Standards
- Convenient to MIL STD 810 E,F Standards
- 3-level RF Power Options
- Informative Directives and Alerts
- LCD Screen, Alphanumeric Keypad
- Graphical User Interface
- Menu Authorization
- List of Missed Calls, Received Calls and Dialed Numbers
- PC Supported Repair
- Calling ID
- Transmission Time Limit

## General Technical Specifications

<b>Modulation</b>	Analog FM, 4FSK (DMR)
<b>Bandwidth</b>	25 kHz (Analog) 12.5 kHz (DMR)
<b>Data Rate (Digital)</b>	1.8 kb/s
<b>Voice Encoding (Digital)</b>	AMBE++
<b>Number of Channels</b>	256
<b>Operating Voltage</b>	13.6 Vdc $\pm$ 20 %
<b>Screen</b>	64x128 LCD
<b>Keypad</b>	20 keys with backlight
<b>Operating Temperature</b>	-30°C / +60°C

## Receiver Technical Specifications (According to ETSI Standards)

	VHF	UHF
<b>Frequency Band</b>	136-174 MHz	403-470 MHz
<b>Audio Output Power</b>	3 W / 8 $\Omega$	3 W / 8 $\Omega$
<b>Analog Sensitivity</b>	$\leq 0.4 \mu\text{V}$ @ 20 dB SINAD	$\leq 0.4 \mu\text{V}$ @ 20 dB SINAD
<b>Digital Sensitivity</b>	$\leq 0.3 \mu\text{V}$ @ 5% BER	$\leq 0.3 \mu\text{V}$ @ 5% BER
<b>Intermodulation Rejection</b>	$\geq 70$ dB	$\geq 70$ dB
<b>Spurious Response Rejection</b>	$\geq 70$ dB	$\geq 70$ dB
<b>Spurious Emission</b>	$\leq -57$ dBm	$\leq -57$ dBm
<b>Adjacent Channel Selectivity 12.5 kHz bandwidth</b>	$\geq 60$ dB	$\geq 60$ dB
<b>Audio Distortion</b>	$\leq 5$ %	$\leq 5$ %

## Transmitter Technical Specifications (According to ETSI Standards)

<b>RF Power Output</b>	5-25 W	5-25 W
<b>Frequency Stability</b>	$\pm 2$ ppm	$\pm 2$ ppm
<b>Modulation Limiting 12.5 kHz bandwidth</b>	$\pm 2.5$ kHz	$\pm 2.5$ kHz
<b>Adjacent Channel Power Ratio 12.5 kHz bandwidth</b>	$\geq 60$ dB	$\geq 60$ dB
<b>FM Noise Ratio 12.5 kHz bandwidth</b>	$\geq 40$ dBm	$\geq 35$ dBm
<b>Spurious Emission</b>	-36 dBm @ < 1 GHz	-36 dBm @ < 1 GHz

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*Aselsan Possesses the Authorization to Change the Technical Specifications without Notice.*