

ZTE

PH790

DMR Portable Radio

Digital and Analog Compatible

Loud and Clear Sound

Long Battery Life

Rich Services

Excellent Man-Machine Interface Design

IP67



Specifications

General	
Frequency	UHF1 : 400 - 470 MHz UHF2 : 450 - 520 MHz UHF3 : 350 - 400 MHz VHF : 136 -174 MHz
Channel Capacity	1024
Zone Capacity	64
Channel Spacing	12.5 kHz / 20 KHz / 25 KHz
Operating Voltage	7.4V
Battery Capacity	2000mAh
Battery Life (5 : 5 : 90)	Analog : 13 hours Digit : 16 hours
Size	130 x 54.5 x 37.4 mm
Wight (With Clip and Battery)	< 390 g
Screen	2.0' Transflective LCD, 240 x 320, 5 Lines
Vocoder	AMBE++

Transmitter	
Low Power Output	1W
High Power Output	4W (UHF1 / UHF2 / UHF3) / 5W (VHF)
FM Modulation	12.5 KHz : 11K0F 3E / 25 KHz : 16K0F 3E
4FSK Digital Modulation	12.5 KHz Data Only : 7K 60 F1D & 7K 60 FXD
	12.5 KHz Voice Only : 7K 60F1E & 7K 60 FXE
	12.5 KHz Voice And Data : 7K 60F 1W
Conducted / Radiated Emission	-36 dBm ≤ 1GHz ; -30 dBm >1 GHz
Modulation Limiting	± 2.5 KHz @ 12.5KHz / ± 5.0KHz @ 25 KHz
FM Hum and Noise	-40 dB @ 12.5 KHz / -45 dB @ 25 KHz
Adjacent Channel Power	60 dB @12.5 KHz / 70 dB @ 25 KHz
Audio Response	+1 -- 3 dB (TIA603D)
Audio Distortion	3 %

Receiver	
Sensitivity (Analog)	0.3 uV (12dB SINAD)
Sensitivity (Digital)	0.25 uV (5% BER)
Adjacent Channel Selectivity	60 dB @ 12.5 KHz / 70 dB @ 25 KHz (TIA 603A) - 1T
	45 dB @ 12.5 KHz / 70 dB @ 25 KHz (TIA 603D) - 2T
Intermodulation	70 dB (TIA 603D)
	65 dB (ETSI)
Spurious Rejection	70 dB (TIA 603D)
	70 dB (ETSI)
Blocking or desensitization	80 dB (TIA 603D)
	84 dB (ETSI)
Co-channel rejection	-12-0 dB @ 12.5 KHz
Hum and Noise	-40 dB @ 12.5 KHz / -45 dB @ 25 KHz
Rated Audio Power	0.5 W
Max Audio Power	2.0 W
Audio Distortion @ Rated Audio	3% (Typical)
Audio Response	+1 --3dB (TIA 603D)
Conducted Spurious Emission	-57 dBm (TIA 603D)

Environmental Specifications	
Operating Temperature	-30 °C ~ + 60 °C
Storage Temperature	-40 °C ~ + 85 °C
ESD	IEC 61000 - 4 - 2 (level 4) ± 8 kV (Contact) ± 15 kV (Air)
Dust and Water Intrusion	IP67
Thermal Shock	MIL- STD - 810 C / D / E / F / G
Humidity	MIL- STD - 810 C / D / E / F / G

GPS Specifications	
Accuracy specs are for long-term tracking (95th percentile values > 5satellites visible at nominal - 130 dBm signal strength)	
TTF (Time To First Fix) - Cold Start	< 60 s
TTF (Time To First Fix) - Hot Start	< 10 s
Horizontal Accuracy	< 10 m

Remarks: The above specifications are in accordance with the applicable standard test, due to the continuous development of technology, in the future data may change without notice.

Standard Accessories



Belt Clip



Hand Rope



Antenna



Battery



Charger



Charger

