

ZTE

PH500/PH520

DMR Portable Radio

-
- Digital / Analog Compatible
 - Loud and Clear Sound
 - Long Battery Life
 - IP67
-



Specifications

General	
Digital Protocol	ETSI - TS 102 361-1,-2,-3
Frequency	UHF1: 400-470 MHz ; UHF2: 450-512 MHz VHF: 136-174 MHz
Channel Capacity	32(PH500) / 1000(PH520)
Channel Spacing	12.5 kHz / 25 KHz
Frequency Stability	± 1.0 ppm
Operating Voltage	7.4 V
Battery Capacity	1800 mAh
Battery Life (5:5:90)	Analog : 12 hours Digit : 16 hours
Size (H×W×D)	118×54.5×32 mm(PH500) / 118×54.5×37 mm(PH520)
Weight (With Clip and Battery)	280 g(PH500) / 320 g(PH520)
Screen	Mono Dot-Matrix Screen (PH520)
Vocoder	AMBE++

Transmitter	
Low Power Output	1 W
High Power Output	4 W (UHF1 / UHF2) / 5 W (VHF)
FM Modulation	12.5 KHz : 11 K0F 3E / 25 KHz : 16 K0F 3E
4FSK Digital Modulation	12.5 KHz Data Only : 7K 60 F 1D & 7K 60 FXD
	12.5 KHz Voice Only : 7K 60 F 1E & 7K 60F XE
	12.5 KHz Voice and Data:7K 60F 1W
Conducted/Radiated Emission	-36 dBm ≤ 1 GHz ; -30 dBm >1 GHz
Modulation Limiting	± 2.5 KHz @12.5 KHz / ±5.0 KHz @ 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 ~ - 3dB (TIA603D)
Audio Distortion	< 3%

Receiver	
Sensitivity (Analog)	0.3 μV (12 dB SINAD)
Sensitivity (Digital)	0.22 μV (5% BER)
Adjacent Channel Selectivity	60 dB @ 12.5 KHz / 70 dB @ 25 KHz (TIA603A) -1T
	45 dB @ 12.5 KHz / 70 dB @ 25 KHz (TIA603D) -2T
Intermodulation	70 dB (TIA 603D)
	65 dB (ETSI)
Spurious Rejection	70 dB (TIA603D)
	70 dB (ETSI)
Blocking or desensitization	80 dB (TIA603D)
	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	1.6 W
Audio Distortion @ Rated Audio	< 3% (Typical)
Audio Response	+1 ~ - 3 dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Environmental	
Operating Temperature	-30 °C ~ + 60 °C
Storage Temperature	-40 °C ~ + 85 °C
ESD	IEC 61000-4-2 (level 4) ± 8kV (Contact) ± 15kV (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

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



Antenna



Battery



Power Adapter



Charger