QUANTUN
QP-7900

General Specifications	
Power Supply	7.5V DC ±20%
Frequencies - Full Bandsplit	400-527MHz 136-174MHz
Number of Channels	2000 Channels
Maximum number of Zones	250 Zones
Maximum number of Channels Per Zone	160
Channel Spacing	12.5/25kHz
Operating Temperature	-30°C~ + 60°C
Dimensions: H x W x D(mm)	
With Standard Li-ion battery (2000mAh)	130.5 X 56 X 36
Weight: (gm)	
With Standard Li-ion battery	330g
Average Battery Life 5/5/90 Cycle:	
With Standard Li-ion battery	15h Digital Mode/11h Analog Mode
Transmitter Specifications	
Frequency Stability(-30°C to 60°C, 25°C Ref)	1.0 ppm
Power Output	1W(L),4W(UHF)/5W(VHF)(H)
Modulation Limiting	±2.5kHz@12.5kHz/±5kHz@25kHz
FM Hum & Noise	-40dB@12.5kHz / -45dB@25kHz
Conducted/Radiated Emission	-36dBm < 1GHz, -30dBm > 1GHz
Adjacent Channel Power	-60dB@12.5kHz / -70dB@25kHz
Adjacent Transient Channel Power	-50dB
FM Modulation Mode	12.5KHz：11K0F3E/25kHz:16K0F3E
4FSK Digital Mode	12.5KHz（data only）： 7K60FXD 12.5KHz（data＋voice）： 7K60FXE
4FSK Modulation Accuracy	5%@25°C, 10%@extreme temperature
Audio Response (300-3000Hz)	+1 ~ -3 dB
Digital Protocol	ETSI TS 102 361-1,-2,-3
Audio Distortion	< 3%
Vocoder	AMBE＋2™
Ext. Microphone Connector	Compatible with MOTO XPR7550
Receiver Specifications	
Analog Sensitivity	.35μV/-116dBm(20 dB SINAD) .22μV/-120dBm(12 dB SINAD)
Digital Sensitivity	.22μV /-120dBm (BER 5%) .25μV /-118dBm (BER 1%)
Intermodulation	TIA603 70dB; ETSI 65dB
Adjacent Channel Selectivity	TIA603 70dB; TESI:70dB @25KHz TIA603 60dB; TESI:60dB @12.5KHz
Spurious Rejection	TIA603:70dB; ETSI:70dB
Blocking	84dB
Rated/MAX Audio	750mW / 1000mW
Audio Distortion @ Rated Audio	3%
Audio Response (300-3000Hz)	+1 ~ -3 dB
Conducted Spurious Emission	-57dBm<1 GHz, -47dBm>1GHz ETS300 086

FC CE IC

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Main Features

Use Time-Division Multiple-Access (TDMA)
Digital Technology doubles the number of channels on a single licensed 12.5 KHZ channel. In compliance with the DMR digital protocol.

Water Resistance & Dust Protection
The radio meets **IP-67** for ingress protection.

Color LCD Display
1.8 inch, 160*128 color LCD display allows to see text messages and menu clearly

Channels
2000 Channels, 250 Zones / 160 Channel per zone. Each Channel can be programmed on Analog / Digital Protocol. Channels are dual mode, allowing for a smooth transition from Analogue to Digital. 136-174 MHZ (VHF), 400-527 MHZ.

Bluetooth (optional)
Bluetooth Operation can be selected to use with Bluetooth headset, earpiece and Bluetooth PTT, or even to use Bluetooth programming.

GPS (Optional)
The radio offers GPS function, it can report its GPS data, and other information by preset intervals, by detection of manually, or by polling, etc. The Radio can save its GPS information for later reading by CPS too.

Vibration
Vibration mode can be selected to remind the user silently that he has a call.

Voice and Text Messages
The radio can send a voice or Text message to others as a notice, a memo, a message, etc. Recording and play back of the messages can be done.

Emergency Alarm
In case of an emergency, an alarm will be transmitted from the radio when the alarm button is pressed.

Channel Annunciation
The radio will announce the channel selected for operation.

Man Down (optional)
When this feature is activated the radio will enter an alarm mode if the radio remains in a horizontal position for a certain amount of time. The amount of time can be customized and pre-set by the user.

Customizing
The radios have multiple features like DMR Monitor, Per Channel ID, Group Call Alert, TX Contact not included, Same ID code, Internal/External Mic Gain, etc. that will allow to program the radios to meet the specific needs of the user. Radios are upgradable and new features can be added in the future.

Military Specifications
Constructed for protection against shock and vibration to maintain a high level of durability.

Other Features included
Lone Worker
Digital Encryption
Voice auto record
Contact / Channel Import Export.
CTCSS / DCS Encode & Decode (analogue mode)
DTMF/MDC1200/2 tone / 5 Tone encode decode (Analogue Mode)
Dual Priority Scan
One Touch/ Quick Menu
Vox
Kill/ Revive
Power Up Zone/ Home Zone
6-Programmable Long / Short Keys
Power On / Write / Read / Configuration File Password