



QUANTUN ELECTRONICS LLC

QUANTUN

QP-2000

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.

Dual Mode Operation

Operates in both Digital & Analogue mode. Allows for easy migration from Analogue to Digital, providing clearer voice communications in digital mode throughout the coverage area.

Multi-Communication Operational

Versatile calling. It supports Private Call, Group Call and All Call in Digital Mode.

Signaling

The radio comes with various signaling options. Built in CTCSS/DCS signaling in Analogue mode & DTMF, MDC1200, 2 Tones and 5 tones.

Tri-color LED

The tri-color LED allows for notification of TX & RX status, as well as calling and scanning.

Battery

40% longer battery duration in digital mode.

Emergency Alarm

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

Software Upgradeable

Allows the user to add or delete functions to keep the radio up to date with current and future software upgrades.

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.

VOX

Allows for hands free communications of the radio when the appropriate VOX accessory is attached.

PC Tuning

Simplifies maintenance of the radio and tuning of the radio by allowing both to be done via a PC.

32 channels

Each Channel can be programmed with several options on a per channel basis. Range 136-174 MHZ (VHF) / 400-470 MHZ (UHF).

Water Resistance & Dust Protection

The radio meets IP-65 for ingress protection.

Channel Annunciation

The radio will announce the channel selected for operation.

Powerful Audio Output

A 1W rated audio output ensures clear audio even in noisy environments.

Military Specifications

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



QUANTUN QP-2000



IP65

FC CE IC

| General Specifications | |
|--|--|
| Power Supply | 7.5V DC \pm 20% |
| Frequencies - Full Bandsplit | 400 - 470MHz 136-174MHz |
| Number of Channels | 32 Channels |
| Maximum number of Zones | 2 Zones |
| Maximum number of Channels Per Zone | 16 |
| Channel Spacing | 12.5/25kHz |
| Operating Temperature | -30°C~ +60°C |
| Dimensions: H x W x D(mm) | |
| With Standard Li-ion battery (2000mAh) | 113.5 X 54 X 34.5 |
| Weight: (gm) | |
| With Standard Li-ion battery | 285g |
| Average Battery Life 5/5/90 Cycle: | |
| With Standard Li-ion battery | 16h Digital Mode/12h 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 | \pm 2.5kHz@12.5kHz/ \pm 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 2-pin |
| Receiver Specifications | |
| Analog Sensitivity | .35 μ V/-116dBm(20 dB SINAD) .22 μ V/-120dBm(12 dB SINAD) |
| Digital Sensitivity | .22 μ V /-120dBm (BER 5%) .25 μ V /-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 | 84 dB |
| 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 ETS 300 086 |



QUANTUN ELECTRONICS LLC
5441 NW 72nd Avenue, Miami FL 33166
954-651-6300 / Toll Free USA: 888-361-0521
sales@quantunelectronics.com

www.quantunelectronics.com