

PROFESSIONAL TWO-WAY

GENERAL
SPECIFICATIONS

General Specifications	General Specifications
Frequency Range	136-174 MHz (VHF) / 400-470 MHz (UHF)
Channel Capacity	512 Channels
Channel Spacing	12.5 / 20 / 25 KHz
Battery	2000 mAh Li-Ion
Battery Life (5-5-90 Cycle)	16 Hours
PLL Step	2.5 / 5 / 6.25 KHz
Type of Emission	16KΦF3E / 11KΦF3E
Current Drain	TX High < 1.5A RX Max. Audio < 330mA (Internal SP) Standby < 70mA
Antenna Impedance	50Ω
Operating Temperature	-22°F to 140°F (-22°C to 60°C)
Power Supply	7.5V DC ±20%
Weight (With Standard Battery)	9.52oz. / 270g
Dimensions (H x W x D)	4.47 x 2.13 x 1.32 (Inches) / 113.5 x 54 x 33.5 (Millimeters)

TRANSMITTER
SPECIFICATIONS

Transmitter Specifications	Transmitter Specifications
Frequency Stability	2.5ppm
Power Output	1W (L), 2W (M), 4W UHF / 5W VHF (H)
Modulation	±2.5 kHz @ 12.5 kHz, ±4 kHz @ 20 kHz, ±5 kHz @ 25 kHz
FM Hum & Noise	-45 dB / -40 dB (Wide/Narrow)
Conducted Radiated Emission	-36 dBm < 1 GHz, -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 KHz, -70 dB @ 20-25 KHz
Audio Response (300-3000 Hz)	+1 ~ -3 dB
Audio Distortion	< 3%

RECEIVER
SPECIFICATIONS

Receiver Specifications	Receiver Specifications
Sensitivity (12 dB SINAD) EIA	.28μV @ 12.5 KHz, .25μV @ 20/25 KHz
Sensitivity (20 dB SINAD) ETS	.50μV
Intermodulation EIA	70 dB
Adjacent Channnel Selectivity	60 dB @ 12.5 KHz, 70 dB @ 20/25 KHz
Spurious Rejection	70 dB
Rated Audio	750 mW
Audio Distortion @ Rated Audio	3%
Audio Response (300-3000 Hz)	+1 ~ -3 dB
Conducted Spurious Emission	-57 dBm < 1 GHz, -47 dBm 1 GHz (ETS 300 086)

US MILITARY
SPECIFICATIONS

US Military Specifications	810 C Method	810 C Procedure	810 D Method	810 D Procedure	810 E Method	810 E Procedure	810 F Method	810 F Procedure
Low Pressure	500.1	1, 2	500.2	1, 2	500.3	1, 2	500.4	1, 2
High Pressure	501.1	1, 2	501.2	1, 2	501.3	1, 2	501.4	1, 2
Low Temperature	502.1	1, 2	502.2	1, 2	502.3	1, 2	502.4	1, 2
Temperature Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain Blowing / Drip	506.1	1, 3	506.2	1, 3	506.3	1, 3	506.4	1, 3
Humidity	507.1	-	507.2	-	507.3	-	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Dust Blowing	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	1	514.3	1	514.4	1	514.5	1
Shock	516.2	1, 4	516.3	1, 4	516.4	1, 4	516.5	1, 4

IP
STANDARD

Ingress Protection Standard	Ingress Protection Standard
Dust Protection & Water Resistance	IP-54

FCC, CE, &
CANADIAN IC

Y4GCU780-2 | IC: 9415A-CU7802 | 1313



- 136-174 MHz VHF | 400-470 MHz UHF
- 512 CHANNELS
- ENCODE & DECODE, MDC 1200 & DTMF TONES
- VOICE RECORDER
- EMERGENCY ALARM BUTTON
- LONE WORKER
- SCAN
- VOX (OPERATION FOR HAND FREE COMMUNICATION)
- IP-54





QP-790



QP-790

PROFESSIONAL TWO-WAY

Water Resistance & Dust Protection
The radio meets the requirements for Ingress Protection Standard IP-54.

Wide Band
Allows the radio to be programmed in a wide frequency range - VHF Frequency, 136-174 MHz, and UHF Frequency, 400-470 MHz.

Signaling
The radio includes a variety of signaling options: 2 Tone, 5 Tone, DTMF & MDC 1200 signaling system. These signaling systems come with PTT ID, Alarm, Voice Storage, Individual Call, Group Call, Short Message and Data Transmission.

Feature & Status Annunciation
The radio will let you know its status as well as a variety of different features by a voice announcement. Feature status announcements include: battery life remaining, GPS location, channel selected and radio ID. There is also an option to customize the language of the voice.

Voice Recording
The radio is able to record up to 60 seconds of voice messages. This feature also allows for storing and reading of recorded voice messages and incoming messages when using the 2 Tone selective call option. Messages can be played back when desired by the user.

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 into 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.

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


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

Embedded Message & Serial Number
The radio can store both messages and records, for example: maintenance, history or programming records. The electronic serial number makes the unit identifiable even if the radio's tag with the serial number, etc. is lost or removed.


Powerful Audio Output
A 750mW rated audio output ensures a clear audio even in the noisiest of environments.

Password Protection
A radio password can be designated upon PC programming. This protects the radio from unauthorized users changing the programming of the radio or accessing information related to the radio.







Secure Wear Earbud
ITEM # QBM0003PCB
*Works in conjunction with product item # QBM100PCB




In Line PTT & Microphone
ITEM # QBM100PCB
*Works in conjunction with product item # QBM0003PCB




VOX Earpiece
ITEM # QBM1V2PCB




VOX Earpiece with D-Ring
ITEM # QBM1V3PCB



Economical & Universal Earbud with In Line PTT
ITEM # QBM102PCB




Man Down
ITEM # QCMD-1500




VHF Antenna
ITEM # QCANT136




UHF Antenna
ITEM # QCANT400




Power Adapter for Charger 110/220 V AC
ITEM # QCPS725



Charger Base
ITEM # QCCB725




Programming Kit for QP-725
ITEM # QC72510020020



Programming Cable with Serial Port
ITEM # QC755200010



Bone Induction Earpiece with Extended Coiled Cable
ITEM # QBM105PCB



Light Weight and Comfortable Headset
ITEM # QBM112PCB



Convenient Earset - Condenser Microphone with Soft & Skin Friendly Ear Hook Reinforced with Kevlar
ITEM # QBM104PCB




Throat Microphone
ITEM # QBM113PCB
ITEM # QBM114PCB




Transparent Acoustic Ear Plug (Optional: Ear tube as a replacement for Ear lip, 6pc/set)
ITEM # QBF4BS




Heavy Duty Speaker Microphone, Environmental PU Cable Reinforced with Kevlar
ITEM # QBM126PCB




Reliable Earbud with Transparent Acoustic Tube
ITEM # QBM108PCB
* Tube replacement: Item # QBF05




Reliable Earbud with Transparent Acoustic Tube
ITEM # QBM107PCB
* Tube replacement: Item # QBF05



Bone Induction Earpiece
ITEM # QBM101PCB



Headset
ITEM # QBM110PCB



Light Duty Speaker Remote, Compact & Sound - 360° Swivel Metal Clip
ITEM # QBM125PCB

