



PROFESSIONAL

## INTRODUCING THE CP50 SERIES

The **CP50** is an Australian designed and manufactured Professional 5 watt UHF radio. Encompassing cutting-edge Digital Signal Processing circuitry, the CP50 delivers a future-proof platform for advanced features and value-added software functionality.

The CP50's unique selectable 100mW low power transmit mode coupled with the 2600mAh Lithium-ion battery pack offers extended operational hours.

Finally, an IP67 dust and waterproof rating provides exceptional durability even under the harshest environmental conditions.

### FEATURES

Loud and Clear 1500mW of Audio Output

Compact and Rugged Design which meets both IP67 and MIL-STD-810G

Selectable Power Output 5W/ 1W/ 100mW

Extra Long Battery Life up to 50 Hours (100mW Mode)

RSSI and Busy Voting

5 and 10 Tone Selcall

MDC1200 Compatible

Stun and Revive Capability

Man down and Lone Worker

Channel Capacity 2047, with 127 Zones

TX Frequency Range 450-520 Mhz

9 Programmable Press and Hold Buttons

Open API/ AT Commands

Voice Channel Announcement



## Specifications

### GENERAL

Frequency Range	450-520 MHz
Number of Channels/ Zones	2047/ 127
Channel Bandwidth	12.5 kHz
Emission	8K50F3E
Antenna impedance	50 Ohms
Input impedance (MIC)	2.2k ohms
Output Impedance (audio)	8 ohms
Operating Temperature Range	-20 to +60 Deg C
Battery	7.4V DC
Current Drain (approx.)	Power Save Mode: Standby: 0.1A, TX 0.1W: 0.15A, TX 5W: 1.7A
Dimensions	59mm x 128mm x 42mm
Weight	337g (with battery and antenna)

### IP RATING

IP67	Dust Tight and Waterproof
------	---------------------------

### TRANSMITTER

Rated Output Power	5W, 1W, 100mW
Modulation	FM
Maximum Permissible Deviation	±2.5 kHz (N)
Frequency Error	±2.5 ppm
Spurious Emissions	-34dBm
Adjacent Channel Power	-67dBm
Audio Harmonic Distortion	0.4% @ 1kHz/ 1.5k Deviation
FM Hum and Noise (with CCITT Filter)	-50.8dB
Residual modulations (with CCITT Filter)	-49.7dB

### RECEIVER

Sensitivity:	12dB SINAD: -120dBm
Intermediate Frequencies	38.85Mhz 450k
Audio Power Output	1.5 W with 8Ω
Adjacent Channel Selectivity	61dB
Spurious Response	71dB
Audio Signal to Noise	34dB (SINAD)
Audio Hum and Noise (with CCITT)	-44dB
Receiver Frequency Response	Meets AS/NZS 4295
Hum and Noise (without CCITT filter)	-38dB

### US MILITARY SPECIFICATION

Standard	MIL-STD 810G	
	Method	Procedure
High Temperature	501.5	i, ii
Low Temperature	502.5	i, ii
Temperature Shock	503.5	i
Rain Blowing/Drip	506.5	i, iii
Humidity	507.5	
Salt Fog	509.5	
Dust Blowing	510.5	i
Immersion	512.5	i
Vibration	514.6	i
Shock	516.6	i, iv

## Accessories

### CHARGERS AND POWER SUPPLY

BCD022	Single Desktop Charger
BCD023	Dual Desktop Charger
BCV012	Car Kit Charger
BCM002	Six Bay Multicharger
PS005	Power Supply to Suit BCD022 and BCD023

### MICROPHONES

MC012	Speaker Microphone
HS016	Ear Piece and Microphone

### CASES

LC009	Heavy Duty Leather Case
CC28	Nylon Case

### ANTENNAS

AE4028	UHF Low Band 450 -490MHz
AE4029	UHF High Band 480-520MHz
AE4030	UHF Wideband 450 -520MHz

### PROGRAMMING CABLE

LS009	USB Programming Cable
-------	-----------------------

### BATTERY PACK

BP028	2600 mAh Battery Pack
-------	-----------------------

### BELT CLIP

MB058	Belt Clip
-------	-----------



PROFESSIONAL

[www.gmeprofessional.com.au](http://www.gmeprofessional.com.au)

Standard Communications Pty Ltd trading as GME.

Specifications are subject to change without notice, they are issued as a guide only and shall not form part of any contract without the express written authorisation of GME.

GME's Australian Manufacturing facility is ISO9001:2015 certified.