



COMMERCIAL

# 5 WATT COMMERCIAL ANALOG RADIO CM40

Designed, engineered and manufactured in Australia, the CM40 is one of the most compact commercial mobile radios available on the market. The CM40 is supplied pre-enabled with 80 UHF CB / PRS channels and supports up to 119 additional private (commercial frequency) channels. In addition, the CM40 can also be licensed to support up to 2000 total channels as well as RSSI & Busy Voting

With a maximum power output of 5W, the CM40 is ideal for entry-level commercial and low transmit power applications, and comes backed with an impressive 5 year warranty.

Available in several customisable configurations, the CM40 can be supplied as a kit with either a Heavy Duty IP67 Dust Tight & Waterproof Fist Microphone (MP600B), Remote Head Kit (RH006), Compact Controller Microphone (UIC500B) or Advanced Controller Microphone (UIC600).

## KEY FEATURES

80 Pre-Enabled UHF CB / PRS Channels
119 Private Channels
(UHF) 450-520 MHz
10 Zones
5 Watt Transmission Power
Dedicated Emergency Button
5 Tone Selcall
MDC 1200 Compatible
DTMF



**5** YEAR  
WARRANTY



# Specifications

## GENERAL

Frequency Range:	450-520 MHz
Number of Channels:	199 (80 UHF CB)
Number of Zones:	10
Channel Spacing:	12.5 kHz
Channel Steps:	12.5 kHz, 6.25 kHz, 5 kHz, 2.5 kHz
Frequency Stability:	±1.5ppm for -20°C to 60°C
Antenna Impedance:	50 Ohms
Supply Voltage:	13.8 V Negative Earth
Operating Voltage Range:	10.8 V to 15.6 V
Reverse Polarity Protection:	Diode
Over Voltage Protection:	18 V Crowbar
Fuse:	2 x 10A Blade Type In-line Fuse
Current Drain Voice (Approx.):	RX Muted: 220 mA
	RX Full Audio: 1A
	TX 1.8A (5W)

## TRANSMITTER

RF Output:	5W (Max)
Modulation:	FM
Deviation Limiting:	5 kHz, 2.5 kHz at 20dB AF Limiting
TX Audio Frequency Response:	+6 dB/Octave, +1 dB/-3 dB, 300 Hz to 3 kHz
AF Distortion:	3% Below Limiting
TX Audio Residual Noise and Hum:	-40 dB
Spurious Emission:	-36 dBm
Adjacent Channel Power:	-60 dBc

## RECEIVER

Analog Sensitivity:	-121 dBm for 12 dBm SINAD Unweighted
IF Frequencies:	38.85 MHz (UHF) 450KHz
Spurious Rejection:	80 dB
Adjacent Channel Selectivity:	60 dB
Intermodulation Rejection:	75 dB
Blocking:	100 dB
Conducted Spurious Emissions:	-80 dBm
RF Switching Bandwidth:	UHF 70 MHz
Circuit Type:	Double Conversion Superhetro-dyne, DC Coupled, DSP Audio Processing

## AUDIO

RX Audio Frequency Response:	+6 dB/octave, +1 dB/-3 dB, 300 Hz to 3 kHz
RX Audio Residual Hum and Noise:	-40 dB
Audio Output Power Internal Speaker:	3W (RMS)
Audio Output Power External Speaker:	3W (RMS) into 4Ω

## MECHANICAL AND ENVIRONMENTAL

Dimensions:	28.9mm (H) x 127mm (W) x 143 mm (D)
Weight:	620g (Chassis)
Operating Temperature Range:	-20°C to +60°C
Antenna Connector:	BNC

# Accessories

## MICROPHONES

MP600B:	Heavy Duty IP67 Fist Mic to suit CM & TX Series
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## DC LEAD

LE013:	3M DC Lead to suit 25W CM & TX Series
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## MOUNTING BRACKET

MB009:	Mounting Bracket to suit CM & TX Series
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## CONTROLLER MICROPHONES

UIC500B:	Compact OLED Controller Microphone to suit CM Series – Black
UIC600B:	Advanced OLED Controller Microphone to suit CM Series – Black
UIC600G:	Advanced OLED Controller Microphone to suit CM Series – Green

## CM40 LICENSES

CMCONVOTING:	Group Channels & Analog Voting License CM40
CMEXTCHAN:	2000 Channels & 50 Zones License CM40

## REMOTE MOUNT KIT

RH006:	Remote Head with 1.8m Lead to suit CM Series
RCK-CMSERIES:	Local to Remote Head Assembly Kit for CM Series

## PROGRAMMING CABLE

LS1-USB:	Programming Lead to suit CM & TX Series
LS002:	Programming Adaptor for CM & TX Series Local Radios (requires LS1-USB)
LS003:	Programming Adaptor for CM & TX Series Base Radios (requires LS1-USB)
LS-UIC:	Programming Lead to suit UIC600



**UIC600B**  
Advanced Controller  
Microphone  
\*1 Year Warranty

**UIC500B**  
Compact Controller  
Microphone  
\*1 Year Warranty



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**5 YEAR**  
WARRANTY