

## SPECIFICATION SHEET



## KEY FEATURES

**Easy to use and set-up**

- Programmable buttons for easy access to frequently used features
- Ruggedised design
- PC programmable

**Quality**

- MIL Spec 810F compliant
- Meets IP54 environmental standards
- Passed unique Motorola Accelerated Life Test which simulates five years hard use in the field
- X-Pand™ voice compression technology

**Efficiency**

- Channel scanning
- High/low power option for battery management
- CTCSS signalling (PL)

**Included as standard**

- Battery
- Belt clip
- Charger
- Aerial

**Accessory options**

A wide range of accessories are available to customise your radio.

- Audio accessories
- Batteries and chargers
- Carry options



Nylon Carry Case - HLN9701



Rugged Remote Speaker Microphone with Audio Jack Socket - MDPMMN4013



D-Shell Ear Piece for RSM - MDPMLN4620



Rapid Desktop Charger - WPLN4139 (Euro) WPLN4140 (UK)



# CP040

## Stay Focused on Your Business.

The CP040, one of the market-leading radios in Motorola's Commercial Series, offers simple and effective communications to keep you focused on your business. Designed with small and medium sized businesses in mind, the CP040 keeps your team members in touch with minimal training and no distractions from complicated features.

With a wide range of accessories and mobile radios also available within the Commercial Series; it's easy to build a tailored communications solution to meet your needs.

## SPECIFICATIONS

GENERAL	VHF	UHF1	UHF2	UHF3
Frequency	146 - 174 MHz	403 - 440 MHz	438 - 470 MHz	465 - 495 MHz
Channel Capacity	4 or 16 Channels			
Power Supply	7.5 Volts $\pm$ 20%			
Dimensions (H x W x D)	130 x 62 x 42mm (with Slim Li-Ion Battery)			
Weight	376g with Slim Li-Ion Battery			
Average Battery Life at Room Temperature (5:5:90 duty cycle)	1 W	5 W	1 W	4 W
Standard Capacity NiMH Battery	13 Hrs	10 Hrs	13 Hrs	10 Hrs
Slim Li-Ion Battery	17 Hrs	12 Hrs	17 Hrs	12 Hrs
High Capacity Li-Ion Battery	19 Hrs	14 Hrs	19 Hrs	14 Hrs

RECEIVER	VHF 12.5 KHZ 20/25 KHZ	UHF1 12.5 KHZ 20/25 KHZ	UHF2 12.5 KHZ 20/25 KHZ	UHF3 12.5 KHZ 20/25 KHZ
Sensitivity (12 dB EIA SINAD)	0.25 $\mu$ V (Typical)			
Adjacent Channel Selectivity	-60 dB -70 dB	-60 dB -70 dB	-60 dB -70 dB	-60 dB -70 dB
Intermodulation	-70 dB			
Frequency Stability (-30°C to +60°C)	0.00025%			
Spurious Rejection	-70 dB			
Audio Output @ < 5% Distortion	500 mW			

TRANSMITTER	VHF Low High	UHF1 Low	UHF2 High	UHF3
RF Output: NiMH @ 7.5V	1 W 5 W	1 W	4 W	
Channel Spacing	12.5/20/25 kHz			
Frequency Stability (-30°C to +60°C)	0.00025%			
Spurs/Harmonics	-36 dBm < 1 GHz		-30 dBm > 1 GHz to 4 GHz	
Audio Response (from 6 dB/oct. Pre-emphasis, 300 to 3000 Hz)	+1, -3 dB			
Audio Distortion @ 1000 Hz, 60% Rated Max. Dev.	<3%			
FM Noise	-40 dB (12.5 kHz)		-45 dB (25 kHz)	

MIL STANDARD 810F APPLICABLE MIL-STD	METHODS	PROCEDURES
Low Pressure	500.4	1
High Temperature	501.4	1,2
Low Temperature	502.4	1,2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	1
Humidity	507.4	3
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1

MODEL NUMBER	SIGNALLING	CHANNELS	FREQUENCY	POWER
MDH50KDC9AA1AN	PL	4	146 MHz to 174 MHz	1-5 W
MDH50QDC9AA1AN	PL	4	403 MHz to 440 MHz	1-4 W
MDH50RDC9AA1AN	PL	4	438 MHz to 470 MHz	1-4 W
MDH50SDC9AA1AN	PL	4	465 MHz to 495 MHz	1-4 W
MDH50KDC9AA2AN*	PL	16	146 MHz to 174 MHz	1-5 W
MDH50QDC9AA2AN*	PL	16	403 MHz to 440 MHz	1-4 W
MDH50RDC9AA2AN*	PL	16	438 MHz to 470 MHz	1-4 W
MDH50SDC9AA2AN*	PL	16	465 MHz to 495MHz	1-4 W

\*Subject to availability

### ENVIRONMENTAL STANDARDS & SPECIFICATIONS

Operating Temperature	-30 to +60 °C
Storage Temperature	-40 to +85 °C
Thermal Shock	-40 to +80 °C
Dust & Water Intrusion	IP54

Specifications are subject to change without notice and are issued for guidance only.

Radios meet all applicable regulatory requirements: R&TTE Directive 1999/5/EC

Applicable Standards EN300 086-2, EN301 489-01, EN301 489-05, EN60950

ISO 9001 Standard – Compliance with ISO 9001, an international quality system assurance on design, development, production, installation and servicing of a product.



### Motorola Limited, EMEA Headquarters

Jays Close, Viables Industrial Estate, Basingstoke, RG22 4PD, UK  
Telephone: +44 (0)1256 358211

www.motorola.com

MOTOROLA and the Stylised M Logo are registered in the US Patent & Trademark Office.  
All other product or service names are the property of their respective owners.  
© Motorola, Inc. 2006. All rights reserved.  
CP040-RE(09/06)

For more information please contact your local  
Motorola Authorised Dealer or Distributor



Business Communications  
Centaur House  
Ancells Business Park  
Ancells Road, Fleet  
Hampshire, GU51 2UJ, UK  
Phone: 01252-617116  
Fax: 01252-626216  
info@businesscomms.co.uk