



**MOTOROLA**  
intelligence everywhere™

## INTRODUCING THE COMMERCIAL SERIES PORTABLE TWO-WAY RADIO – THE CP040

### VALUE AND SIMPLICITY IN THE PALM OF YOUR HAND

Benefiting from a 75 year history in the business of communication, Motorola welcomes you to the future of two-way radio with the Commercial Series. Comprising new portable radios for work-teams that need to keep in touch wherever they are, the family also includes four mobile radios for powerful in-vehicle or fixed site communications.

#### EASY TO USE

Using the CP040 is second nature thanks to the tough and textured buttons, chunky rotary channel, volume knobs and tricolour status LED. In addition, two programmable buttons can be set to give immediate access to the four most often-used features, making communication even simpler.

#### TARGETED COMMUNICATION

With four communication channels, you can use the CP040 to liaise with the whole team or change channel to discuss a more complicated issue one-to-one.

#### KEEP IN TOUCH

The CP040 has a high/low power setting that allows users to extend battery life for up to 19 hours\* from a

single battery charge. This can be done by switching to low power when the user is in close proximity to other users, as the range is reduced and less power is required.

Avoid missed messages with the built-in 'scan' function that searches all four channels for activity.

#### MOTOROLA QUALITY

Designed and built to the gruelling American standard MIL spec 810F and exceeding the exacting IP54 standard for environmental protection, the CP040 has also passed the Motorola Accelerated Life Test which replicates five years of hard use in the field.

#### QUALITY AUDIO

Benefiting from Motorola's market-leading experience in designing and manufacturing two-way radio, the CP040 provides excellent audio quality thanks to Motorola's voice-compression technology, X-Pand™.

#### CUSTOMISABLE

As you would expect from Motorola, the CP040 is supported by a wide range of energy, audio and carry accessories, changing the CP040 into a customised solution.

\*Based on 5:5:90 (transmit:receive:standby) duty cycle, with low power setting and high capacity lithium ion battery in normal operating conditions.



*The Motorola CP040 offers simple radio communication for small and medium-sized organisations at a very competitive price.*

*Designed with small and medium-sized warehousing, agriculture, security, light industry and services customers in mind, the four channel CP040 requires minimal training and keeps team members in touch without distracting them with complicated features. Management can monitor all voice traffic and get a message to the team in seconds, however large the site.*



HLN9701 – Nylon Carry Case



HMN9754 – Two Wire Beige Earpiece with Combined Microphone and PTT



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



HMN9030 – Rugged Remote Speaker Microphone

## TECHNICAL SPECIFICATIONS

General	VHF	UHF1	UHF2	UHF3
Frequency	146 - 174 MHz	403 - 440 MHz	438 - 470 MHz	465 - 495 MHz
Channel Capacity	4 Channels			
Power Supply	7.5 Volts ± 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		UHF1		UHF2		UHF3	
	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz
Sensitivity (12 dB EIA SINAD)	0.25 µV (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		UHF1	UHF2	UHF3
	Low	High	Low	High	High
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 NUMBERS

Model Number	Signalling	Channels	Frequency	Power
MDH50KDC9AA1AN	PL	4	146-174 MHz	1-5 W
MDH50QDC9AA1AN	PL	4	403-440 MHz	1-4 W
MDH50RDC9AA1AN	PL	4	438-470 MHz	1-4 W
MDH50SDC9AA1AN	PL	4	465-495 MHz	1-4 W

## ENVIRONMENTAL STANDARDS & SPECIFICATIONS

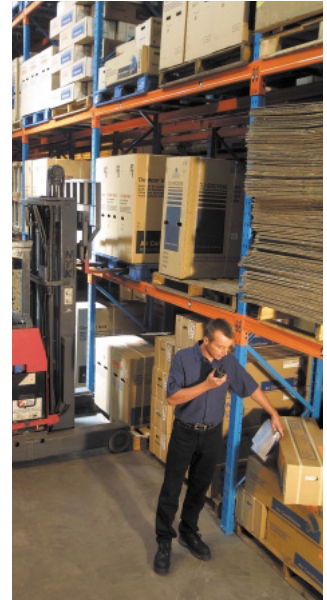
Operating Temperature	-30 to +60 °C
Storage Temperature	-40 to +85 °C
Thermal Shock	-40 to +80 °C
Dust & Water Intrusion	IP54

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.



## ACCESSORIES

All radios are supplied with a slim lithium ion battery for optimal performance. A belt clip and rapid desktop charger are also included to get you started.

Batteries	
NNTN4851	Standard Capacity NiMH Battery
NNTN4970	Slim Li-Ion Battery
NNTN4497	High Capacity Li-Ion Battery
Chargers	
WPLN4139	Rapid Desktop Charger (Euro)
WPLN4140	Rapid Desktop Charger (UK)
WPLN4162	Rapid Multi-Unit Charger (Euro)
WPLN4163	Rapid Multi-Unit Charger (UK)
Carry	
HLN8255	7.5cm Spring Action Belt Clip
HLN9701	Nylon Carry Case with Belt Loop and D Rings
HLN9985	Waterproof Bag
RLN4815	Universal RadioPack
RLN5383	Leather Carry Case with Belt Loop and D Rings
RLN5385	Leather Carry Case with Swivel Belt Loop
Audio	
HMN9030	Rugged Remote Speaker Microphone
HMN9727	Single Wire Beige Earpiece
HMN9754	Two Wire Beige Earpiece with Combined Mic and PTT
MDPMLN4445	Ultra-Light Earset with In-Line PTT
MDPMLN4442	Earbud with Combined Microphone and PTT
MDPMLN4443	Flexible Ear Receiver with Combined Mic and PTT
MDPMMN4008	Remote Speaker Microphone
RLN5238	Stadium Headset with In-Line PTT

All specifications are subject to change without notice.

For more information please contact:

**Radio | active**  
mobile communications for business

Tel: 01978 664242  
[www.radioactivecomms.com](http://www.radioactivecomms.com)  
[sales@radioactivecomms.com](mailto:sales@radioactivecomms.com)



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