

## 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 ± 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 |
| Sensitivity (12 dB EIA SINAD)        | 0.25 µV (Typical)  |                    |                    |                    |
| Adjacent Channel Selectivity         | -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                     |      |
| 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.                  | +1, -3 dB         |      |                          |      |
| Pre-emphasis, 300 to 3000 Hz)                   |                   |      |                          |      |
| 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.



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