



DM 3600/3601

Enhanced Display Mobile Radios



- 1 Accessory connector supports USB and enhanced audio capability.
- 2 Multi-colored LED indicators for clear, visible feedback of calling, scanning and monitoring.
- 3 Large, easy-to-use volume knob.
- 4 DM 3601 includes integrated GPS module.
- 5 1000 channels.
- 6 Powerful, front-projecting speaker.
- 7 Large, easy-to-use navigation buttons allow easy access to intuitive, menu-driven interfaces.
- 8 Flexible, menu-driven interface with user-friendly icons or two lines of text for ease of reading text messages.
- 9 Four programmable buttons for easy access to favourite features. New features such as one-touch calling and text messaging are made even easier through programmable button access.
- 10 Compact and ergonomically friendly microphone.

Display Mobile Radio Standard Package

- Radio with Display Control Head
- Trunnion
- Cabling (power cord)
- Compact Microphone
- Quick Reference Guide

Additional Features

- Enhanced call management
 - Encode/decode: emergency, remote monitor, push-to-talk ID, radio check, all call, radio disable
- DM 3601 can transmit GPS coordinates
- Dual-mode analogue/digital scan - facilitates a smooth migration from analogue to digital
- Short free-form and quick text messaging
- Remote Mount Control Head
- Privacy Options
- VOX capability
- Multiple Site Support (IP Site Connect)

MOTOTRBO™ System Components and Benefits

DM 3600/3601 Enhanced Display Mobile Radios

Specifications

GENERAL SPECIFICATIONS

| | |
|-------------------------------|---|
| Channel Capacity | 1000 |
| Typical RF Output | |
| Low Power UHF1 and VHF | 1-25 W |
| High Power UHF2 (450-512 MHz) | 1-40 W |
| High Power UHF2 (512-527 MHz) | 1-25 W |
| High Power UHF1 | 25-40 W |
| High Power VHF | 25-45 W |
| Frequency | 136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2) |
| Dimensions (HxWxD) | 51 x 175 x 206 mm |
| Weight | 1.8 kg |
| Current Drain: | |
| Standby | 0.81 A max |
| Rx @ Rated Audio | 2 A max |
| Transmit | 1-25 W: 11.0A max 1-40 W: 14.5A max (11.0A max < 25 W) 25-40 W: 14.5A max 25-45 W: 14.5A max |

RECEIVER

| | |
|--------------------------------|--|
| Frequency | 136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2) |
| Channel Spacing | 12.5 kHz / 20 kHz / 25 kHz |
| Frequency Stability | +/- 1.5 ppm (DM 3600) (-30° C, +60° C, +25° C) |
| Analogue Sensitivity | 0.30 uV (12 dB SINAD) 0.22 uV (typical) (12 dB SINAD) 0.4 uV (20 dB SINAD) |
| Digital Sensitivity | 5% BER: 0.3 uV |
| Intermodulation | 70 dB |
| Adjacent Channel Selectivity | 60 dB @ 12.5 kHz, 70 dB @ 20/25 kHz |
| Spurious Rejection | 70 dB |
| Rated Audio | 3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms) |
| Audio Distortion @ Rated Audio | 3% (typical) |
| Hum and Noise | -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz |
| Audio Response | +1, -3 dB |
| Conducted Spurious Emission | -57 dBm |

MILITARY STANDARDS

| Applicable MIL-STD | 810E | | 810F | |
|--------------------|---------|-------------|---------|---------------|
| | Methods | Procedures | Methods | Procedures |
| Low Pressure | 500.3 | II | 500.4 | II |
| High Temperature | 501.3 | I/A, II/A1 | 501.4 | I/Hot, II/Hot |
| Low Temperature | 502.3 | I/C3, II/C1 | 502.4 | I/C3, II/C1 |
| Temperature Shock | 503.3 | I/A, 1C3 | 503.4 | I |
| Solar Radiation | 505.3 | I | 505.4 | I |
| Rain | 506.3 | I, II | 506.4 | I, III |
| Humidity | 507.3 | II | 507.4 | - |
| Salt Fog | 509.3 | I | 509.4 | I |
| Dust | 510.3 | I | 510.4 | I |
| Vibration | 514.4 | I/10, II/3 | 514.5 | I/24 |
| Shock | 516.4 | I, IV | 516.5 | I, IV |

TRANSMITTER

| | |
|-------------------------------|--|
| Frequency | 136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2) |
| Channel Spacing | 12.5 kHz / 20 kHz / 25 kHz |
| Frequency Stability | +/- 1.5 ppm (DM 3600) (-30° C, +60° C, +25° C) |
| Power Output | Low Power UHF1 and VHF 1-25 W High Power UHF2 (450-512 MHz) 1-40 W High Power UHF2 (512-527 MHz) 1-25 W High Power UHF1 25-40 W High Power VHF 25-45 W |
| Modulation Limiting | +/- 2.5 kHz @ 12.5 kHz +/- 4 kHz @ 20 kHz +/- 5.0 kHz @ 25 kHz |
| FM Hum and Noise | -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz |
| Conducted / Radiated Emission | -36 dBm < 1 GHz -30 dBm > 1 GHz |
| Adjacent Channel Power | -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz |
| Audio Response | +1, -3 dB |
| Audio Distortion | 3% |
| Digital Vocoder Type | AMBE+2 |
| Digital Protocol | ETSI-TS 102 361-1, 2 & 3 |

GPS

| | |
|---|--------------|
| Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength) | |
| TTF (Time To First Fix) Cold Start | < 1 minute |
| TTF (Time To First Fix) Hot Start | < 10 seconds |
| Horizontal Accuracy | < 10 meters |

ENVIRONMENTAL SPECIFICATIONS

| | |
|--------------------------|-----------------|
| Operating Temperature | -30° C / +60° C |
| Storage Temperature | -40° C / +85° C |
| Temperature Shock | Per MIL-STD |
| Humidity | Per MIL-STD |
| Water and Dust Intrusion | IP54, MIL-STD |

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



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