



**ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES**

# XT200 SERIES BUILT TOUGH TO DO BUSINESS BETTER

Motorola XT200 Series two-way radios have the business smarts to help people work better together – coordinating resources at the construction site or monitoring production on the manufacturing line. They come with the right credentials to give business the competitive edge: exceptional quality, affordability and durability to outlast high noise, tough conditions and hard use.

#### WORK TOGETHER EFFICIENTLY AND SAFELY

Focus on the job with instant push-to-talk that keep your hands free. The XT200 Series delivers loud and clear audio output thanks to its powerful built-in loudspeaker and the user can select between 8 channels and 122 privacy codes to help ensure a clear signal.

#### CONNECT EASILY THROUGHOUT THE WORKPLACE

XT200 Series radios make it easy to get the work done. Compact yet performance-packed, the XT200 Series provides coverage up to 16 250 m<sup>2</sup>, 13 floors or 9km line of sight<sup>2</sup>. A carry holster with swivel belt clip lets you rotate the radio to fit comfortably and move freely while picking up a tool or restocking a shelf.

#### KEEP ON TALKING IN TOUGH CONDITIONS

Military Standard 810 C, D, E, F and G plus IP54 may be the standards for other radio manufacturers, but they are the starting point for our XT200 Series. These radios undergo Motorola's unique Accelerated Life Testing (ALT). This rigorous laboratory testing simulates up to 5 years of field use. We design and build the XT200 Series right the first time to minimize costly repairs and downtime.

#### TOOLS & ACCESSORIES

The HTML-based Customer Programming Software is so easy to use, it works with any computer browser. Plus you can re-use your XTNi audio accessories to unleash the power of your XT200 Series radios.

#### FEATURES:

- Operates on subscription-free PMR446 and LPD frequencies<sup>1</sup>
- 8 Channels
- On/off/volume control knob
- 16-position channel/code selector knob
- Programmable side buttons
- Battery Save
- USB CPS Interface
- Scan and Scan List
- Time-Out Timer
- Compatible with XTNi Audio Accessories
- VOX

**PRODUCT SPEC SHEET**  
**XT200 SERIES RADIOS AND ACCESSORIES**

**GENERAL SPECIFICATIONS**

|   | <b>XT220</b>  | <b>XT225</b>  |
|---|---|---|
| Frequency Range   | PMR446 (446.00625 – 446.09375 MHz)                                | PMR446 (446.00625 – 446.09375 MHz) & LPD433 (433.075 - 434.775 MHz) |
| Audio Output  | 800 mW  |   |
| Channel Capacity  | 16 Channels   |   |
| Channel Bandwidth   | 12.5 kHz  | 12.5 / 25.0 kHz   |
| Private Codes   | 122 codes<br>(CTCSS 39, DCS 83)                                   |   |
| Dimensions with:<br>Standard Li-Ion Battery   | 116 x 58 x 40 mm  |   |
| Weight with:<br>Standard Li-Ion Battery   | 230g  |   |
| Average Battery Life @ 5/5/90 <sup>3</sup><br>with Standard 2150 mAh Li-Ion Battery | Up to 18 hours with 0.5 W transmit power and with battery save on |   |
| Battery Voltage   | 3.7V Li-Ion   |   |

**RECEIVER**

|  |                    |
|--|--------------------|
| Sensitivity (12 dB SINAD)                    | -121 dBm (0.20 µV) |
| Adjacent Channel Selectivity                 | 60 dB @ 12.5 kHz   |
| Intermodulation Rejection                    | 60 dB              |
| Spurious Response Rejection (blocking 1 MHz) | 70 dB              |
| Audio Distortion                             | < 5%               |
| CSQ Hum and Noise @ 12.5 kHz                 | -40 dB             |
| Spurious Emissions (< 1 GHz)                 | < -57 dBm          |
| Spurious Emissions (> 1 GHz)                 | < -52 dBm          |
| Audio Output @ < 5% Distortion               | 0.8 W @ 8 ohm      |

**TRANSMITTER**

|  |  |                 |
|--|--|-----------------|
| RF Output                                | 0.5 Watt                                     | 0.01 - 0.5 Watt |
| Frequency Stability                      | < 2.5 ppm                                    |                 |
| FM Hum and Noise                         | < -38 dB                                     |                 |
| Modulation Limiting                      | ±2.5 kHz @ 12.5 kHz                          |                 |
| Adjacent Channel Power                   | 62 dBc @ 12.5 kHz                            |                 |
| Spurious Emissions @ 12.5 kHz            | -36 dbm for f < 1 GHz, -30 dbm for f > 1 GHz |                 |
| Audio Frequency Response (0.3 - 3.0 kHz) | +3 to -3 dB                                  |                 |
| Audio Distortion                         | < 3%   |                 |

**MILITARY SPECIFICATIONS**

| Standard          | MIL 810 C               | MIL 810 D             | MIL 810 E             | MIL 810 F             | MIL 810 G             |
|-------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Low Pressure      | 500.1 / Procedure 1     | 500.2 / Procedure 2   | 500.3 / Procedure 2   | 500.4 / Procedure 1   | 500.5 / Procedure 1   |
| High Temperature  | 501.1 / Procedure 1,2   | 501.2 / Procedure 1,2 | 501.3 / Procedure 1,2 | 501.4 / Procedure 1,2 | 501.5 / Procedure 1,2 |
| Low Temperature   | 502.1 / Procedure 1     | 502.2 / Procedure 1,2 | 502.3 / Procedure 1,2 | 501.4 / Procedure 1,2 | 501.5 / Procedure 1,2 |
| Temperature Shock | 503.1 / Procedure 1     | 503.2 / Procedure 1   | 503.3 / Procedure 1   | 503.4 / Procedure 1   | 503.5 / Procedure 1   |
| Solar Radiation   | 505.1 / Procedure 1     | 505.2 / Procedure 1   | 505.3 / Procedure 1   | 505.4 / Procedure 1   | 505.5 / Procedure 1   |
| Rain              | 506.1 / Procedure 1,2   | 506.2 / Procedure 1,2 | 506.3 / Procedure 1,2 | 506.4 / Procedure 1   | 506.5 / Procedure 1   |
| Humidity          | 507.1 / Procedure 2     | 507.2 / Procedure 2,3 | 507.3 / Procedure 2,3 | 507.4 / Procedure 3   | 507.5 / Procedure 3   |
| Dust              | 510.1 / Procedure 1     | 510.2 / Procedure 1   | 510.3 / Procedure 1   | 510.4 / Procedure 1   | 510.5 / Procedure 1   |
| Vibration         | 514.2 / Procedure 8,10  | 514.3 / Procedure 1   | 514.4 / Procedure 1   | 514.5 / Procedure 1   | 514.6 / Procedure 1   |
| Shock             | 516.2 / Procedure 1,2,5 | 516.3 / Procedure 1,4 | 516.4 / Procedure 1,4 | 516.5 / Procedure 1   | 516.5 / Procedure 1   |

**ENVIRONMENTAL SPECIFICATIONS**

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | -25°C <sup>4</sup> to +55°C          |
| Sealing               | IP54                                 |
| Shock and Vibration   | Polycarbonate Housing passes EIA 603 |
| Dust and Humidity     | Satisfied EIA 603                    |

<sup>1</sup> XT220 only operates on PMR446 frequencies  
<sup>2</sup> Coverage will vary based on terrain and conditions  
<sup>3</sup> Actual battery runtime observed may vary based on usage  
<sup>4</sup> Radio only - Li-Ion battery -10°C

For more information on the radio that's built tough to do business better, visit the Motorola XT200 Series website at [www.motorolasolutions.com/XTseries](http://www.motorolasolutions.com/XTseries) or find your closest Motorola representative or authorised Partner at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus)

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