



# XTNi / XTNi D

## XTNi Series On-Site Two-Way Business Radios

### Performance You Can Count On.

The Motorola XTNi Series provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the XTNi Series helps keep your operations on schedule, maximise job-shift productivity, enhance security and increase overall customer satisfaction. Compatible with other radios operating on the same frequency and code, the versatile XTNi Series also has a full complement of accessories for customising the radio to suit your needs.



XTNi

#### Exceptional Audio Quality

2000 mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications deliver superior audio quality that is 30% louder than Motorola XTN.

#### Rugged and Water Resistant

Meets Military 810 C,D,E and F and IP55 specifications for shock, rain, humidity, salt fog, vibration, sand/dust, temperature shock, high and low temperature.

#### Customer Programming Software (CPS)\*

Allows users to perform programming functions and provides access to new features such as cloning and radio profiles, Scan, Channel/PL code selection, Call tones and Time-Out Timer.

#### Non-Display and Display versions

XTNi offering simplicity of operation or XTNiD offering additional operational capabilities and functionality.

#### Power and Coverage\*\*

500 Mw UHF - Coverage of up to 9Km depending on terrain and operating conditions.

#### Licence-free Frequencies

Operates without subscription or call charges on PMR446 unlicensed frequencies, offering 8 channels and user selectable PL codes to help ensure a clear signal.

#### Tri-Color LED Interface

Convenient interface allows users to identify different radio features and radio status.

#### Flexible and Durable Battery Life Solutions

The custom XTNi Series Li-Ion battery packs are designed and manufactured to ensure durability. Models are available with either standard or high-capacity Li-Ion batteries. All radios can also be operated via alkaline batteries using an optional accessory kit.

#### Easy Cloning

Quickly copy settings with the Radio-to-Radio Cloning Cable or Multi-Unit Charger. (Both accessories sold separately.)

#### Advanced Voice Activation (VOX)

Enables convenient hands-free operation.

#### General Features:

- 16-position channel/code selector
- Accessory Mic Gain
- Autoscan
- Battery Save
- 8 Channels
- USB CPS Interface
- Radio Mic Gain
- Scan and Scan List
- Scramble (XTNiD Only)
- Time-Out Timer
- Compatible with XTN Audio Accessories
- Compatible with XTN Default Frequencies

\* CPS is available as an optional accessory and includes a required USB cable. Windows® Vista, XP, Windows 2000 compatible.

\*\* Coverage will vary based on terrain, conditions and the radio model used.



XTNi D

## XTNi / XTNi D General Specifications

Frequency Range	446.0 to 446.1 MHz
Audio Output	2000 mW
Channel Capacity	8 Channels
Channel Bandwidth	12.5/25 kHz
Dimensions (H" x W" x D") w/Standard Li-Ion Battery	4.5 x 2.2 x 1.6 inches (115.6 x 57.6 x 40.5 mm)
w/High Capacity Li-Ion Battery	4.5 x 2.2 x 1.8 inches (115.6 x 57.6 x 45.1 mm)
Weight w/Standard Li-Ion Battery	8.6 oz (244g)
w/High Capacity Li-Ion Battery	10.3 oz (293g)
Average Battery Life @ 5/5/90 (with Battery Save On):	
w/Standard 1100 mAh Li-Ion Battery	Up to 32 Hours
w/High Capacity 2200 mAh Li-Ion Battery	Up to 32 Hours
w/Optional Alkaline Battery Accessory	Up to 35 Hours
Power Supply Voltage	7.2 Volts DC (Li-Ion Battery Pack or Alkaline)

## Transmitter

RF Output	0.5 Watts
Frequency Stability	< 2.5 ppm
Spurs & Harmonics	< -45 dBc
FM Hum & Noise	-40 dB @ 12.5 kHz -45 dB @ 25.0 kHz
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz
Adjacent Channel Power	60 dBc
Radiated Spurious Emissions @ 12.5 kHz	< -20 dBm
Radiated Spurious Emissions @ 25 kHz	< -13 dBm
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB
Audio Distortion	< 2%

## Receiver

Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 65 dB @ 25.0 kHz
Intermodulation Rejection	60 dB
Spurious Response Rejection (blocking 1 MHz)	80 dB
Audio Distortion	< 5%
CSQ Hum & Noise @ 12.5 kHz	-50 dB
PL Hum & Noise @ 12.5 kHz	-50 dB
DPL Hum & Noise @ 12.5 kHz	-45 dB
Radiated Spurious Emissions (< 1 GHz)	< -54 dBm
Radiated Spurious Emissions (> 1 GHz)	< -52 dBm
Audio Output @ < 5% Distortion	1.5 W @ 8 ohms

## Military Specifications

Standard	MIL 810 C Methods/Procedures	MIL 810 D Methods/Procedures	MIL 810 E Methods/Procedures	MIL 810 F Methods/Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 2	500.3 / Procedure 2	500.4 / Procedure 1
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 1
Humidity	507.1 / Procedure 2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4 / Procedure 3
Salt Fog	509.1 / Procedure 1	509.2 / Procedure 1	509.3 / Procedure 1	509.4 / Procedure 1
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1

## Environmental Specifications

Operating Temperature	-30°C to +60°C (Radio)
Sealing	IP55
Shock & Vibration	Polycarbonate Housing passes EIA 603
Dust & Humidity	Satisfied EIA 603

For more information, see the XTNi Microsite at: [www.motorola.com/xtni](http://www.motorola.com/xtni)



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