



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

# XT400 SERIES BUILT TOUGH TO DO BUSINESS BETTER

Motorola XT400 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 and customised channel announcements that keep your hands free. Now you'll know which channel and which department you are talking to without removing the radio from your belt. The XT400 Series delivers loud and clear audio output thanks to its powerful built-in loudspeaker and the user can select between 8 channels and 219 privacy codes to help ensure a clear signal.

#### **CONNECT EASILY THROUGHOUT THE WORKPLACE**

XT400 Series radios make it easy to get the work done. Compact yet performance-packed, the XT400 Series provides coverage up to 16 250 m<sup>2</sup>, 13 floors or 9km line of sight<sup>1</sup> with voice prompts

that enable you to programme non-display radios on the go. 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 and the antimicrobial coating helps prevent the growth of mould and germs on the surface of the radio – as you change shifts, pass on the radio confidently.

#### **KEEP ON TALKING IN TOUGH CONDITIONS**

Military Standard 810 C, D, E, F and G plus IP55 may be the standards for other radio manufacturers, but they are the starting point for our XT400 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 XT400 Series right the first time to minimize costly repairs and downtime.

#### **MOVE FROM XTNi TO XT400 SERIES SEAMLESSLY**

The HTML-based Customer Programming Software is so easy to use, it works with any computer browser. Profiles are interchangeable with the XTNi Series too. You can quickly copy settings between XT400 Series radios or between XTNi and XT400 Series portables with the radio-to-radio cloning cable or through the Multi-Unit Charger. Plus you can re-use your XTNi audio accessories to unleash the power of your XT400 Series radios.

#### **FEATURES:**

- Operates on license and subscription-free PMR446 frequencies
- 8 Channels
- On/off/volume control knob
- 16-position channel/code selector knob
- Autoscan
- Battery Save
- USB CPS Interface
- Radio Mic Gain
- Accessory Mic Gain
- Scan and Scan List
- Voice scrambling for extra privacy
- Time-Out Timer
- Compatible with XTNi Audio Accessories

**PRODUCT SPEC SHEET**  
**XT400 SERIES RADIOS AND ACCESSORIES**

**GENERAL SPECIFICATIONS**

	XT420	XT460
Frequency Range	PMR446 (446.00 – 446.1 MHz)	
Audio Output	1500 mW	
Channel Capacity	16 Channels	
Channel Bandwidth	12.5kHz	
Private Codes	219 codes (CTCSS 38, DCS 181)	
Dimensions with: Standard Li-Ion Battery	116 x 58 x 40 mm	
Weight with: Standard Li-Ion Battery	244g	256g
Average Battery Life @ 5/5/90° with Standard 2150 mAH Li-Ion Battery	Up to 20 hours with battery save on	
Battery Voltage	3.7V Li-Ion	

**RECEIVER**

Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)
Adjacent Channel Selectivity	70 dB @ 12.5 kHz
Intermodulation Rejection	70 dB
Spurious Response Rejection (blocking 1 MHz)	90 dB
Audio Distortion	< 5%
CSQ Hum and Noise @ 12.5 kHz	-50 dB
PL Hum and Noise @ 12.5 kHz	-50 dB
DPL Hum and Noise @ 12.5 kHz	-45 dB
Spurious Emissions (< 1 GHz)	< -54 dBm
Spurious Emissions (> 1 GHz)	< -52 dBm
Audio Output @ < 5% Distortion	1.5W @ 8 ohms

**TRANSMITTER**

RF Output	0.5 Watt
Frequency Stability	< 1.5 ppm
Spurs and Harmonics	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz
FM Hum and Noise	< -45 dB
Modulation Limiting	±2.5 kHz @ 12.5 kHz
Adjacent Channel Power	70 dBc
Spurious Emissions @ 12.5 kHz	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB
Audio Distortion	< 2%

**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	-30°C to +60°C
Sealing	IP55
Shock and Vibration	Polycarbonate Housing passes EIA 603
Dust and Humidity	Satisfied EIA 603

<sup>1</sup>Coverage will vary based on terrain and conditions  
<sup>2</sup>Actual battery runtime observed may vary based on usage  
<sup>3</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 XT400 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)

Distributed by:

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2013 Motorola, Inc. All rights reserved. R3-4-2064

Motorola Solutions Ltd. Jays Close, Viabes Industrial Estate, Basingstoke, Hampshire, RG22 4PD, UK

Version 1 (06/13)

