XT400 SERIES
ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES



BUILT TOUGH TO DO BUSINESS BETTER

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.

KEY BENEFITS

WORK TOGETHER EFFICIENTLY AND SAFELY

Focus on the job with instant push-to-talk and customisable channel announcements that let you 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 so messages are heard first time. The user can select between all 16 analogue PMR446 channels[1] with 219 privacy codes to help ensure a clear signal and to give greater options to reduce interference from others.

CONNECT EASILY THROUGHOUT THE WORKPLACE

XT400 Series radios make it easy to get your work done. Compact yet performance-packed, the XT400 Series provides coverage up to 16,250 square metres, 13 floors or 9km line of sight[2] 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

XT400 Series is built to last. It is IP55 rated and is designed to meet Military Standard 810 C, D, E, F and G. These radios also undergo Motorola Solutions 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 minimise costly repairs and downtime.

COMMUNICATE EFFORTLESSLY WITH WORKGROUPS

XT400 Series is designed to be simple to use with clear controls and 2 programmable buttons that give quick access to commonly-used functions. A talk permit tone and roger beep can be set to give users an audible indication that the channel is ready for them to speak.

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GENERAL SPECIFICATIONS		
	XT420	**XT460**
Frequency Range	PMR446 (446.00625 to 446.19375 MHz[1])	
Audio Output	1500 mW	
Channel Capacity	16 Channels	
Channel Bandwidth	12.5kHz	
Privacy Codes	219 codes (CTCSS 38, DCS 181)	
Call Tones	6 user selectable tones	
Channel Announcement	Select from 16 pre-recorded channel names in 10 languages, or upload your own audio file for personalised channel names	
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[3] 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 SPECIFICATION					
STANDARD	**MIL STD 810 C**	**MIL STD 810 D**	**MIL STD 810 E**	**MIL STD 810 F**	**MIL STD 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	502.4 / Procedure 1,2	502.5 / 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	516.6 / Procedure 1

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-30°C[4] to +60°C
Sealing	IP55
Shock and Vibration	Polycarbonate Housing passes EIA 603
Dust and Humidity	Satisfied EIA 603

[1] Restricted to 8 channels in Russia by law. Please refer to user guide. Only 446.0–446.1 MHz analogue frequencies are available by default. 446.1–446.2 MHz analogue frequencies should only be used in countries where these frequencies are allowed by government authorities.
[2] Coverage will vary based on terrain and conditions.
[3] Actual battery runtime observed may vary based on usage.
[4] Radio Only - Li-Ion battery -10°C.

FEATURES

- Operates on license-free and subscription-free PMR446 frequencies
- 16 Channels[1]
- On/off/volume control knob
- 16-position channel/ code selector knob
- 2 programmable buttons
- Customisable Channel Announcements
- Programmable channel alias (XT460 only)
- 6 user selectable call tones
- Autoscan
- Battery Save
- Radio Mic Gain
- Accessory Mic Gain
- Scan and Scan List
- Voice scrambling for extra privacy
- Time-Out Timer

For more information on XT400 Series, visit: **motorolasolutions.com/XT400**

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Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

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