



THE PROFESSIONAL CHOICE FOR DANGEROUS AREAS

MOTOTRBO™ XPR™ 7550 I.S.

Explosive gas, combustible dust, chemical vapors, from an oil rig, an open mine or a confined space, your workers confront difficult conditions every day. Safe, reliable communications are absolutely critical in such hazardous environments. That's why you need the power and performance of the CSA-rated MOTOTRBO digital radios.

The MOTOTRBO XPR 7550 I.S. combines full-power two-way radio functionality (5W transmit power for VHF, 4W for UHF) with the latest digital technology. It integrates voice and data seamlessly, offers advanced features and enhanced usability, and delivers increased capacity to connect all your employees.

With exceptional voice quality, long battery life and a CSA safety rating, the XPR 7550 I.S. keeps your workers connected safely and productively, wherever the job takes them.

RELIABLE IN THE TOUGHEST CONDITIONS

The XPR7550 I.S. is designed to be rugged and durable, for the highest CSA rating. It meets or exceeds MIL-STD-810 for exceptional durability and is IP67 rated to be almost immune to water and dust. The design has also passed Motorola's grueling Accelerated Life Test program, so you can be confident it will survive many years of hard use.

SAFE AND EASY TO OPERATE

The XPR7550 I.S. has large buttons and robust volume and channel knobs, so there's no need to remove protective gloves. The large 5-line color display and bright LED show radio status information at a glance.

The screen even has a day/night mode to preserve your workers' vision in low light conditions. And the prominent orange emergency button provides a one-touch call for assistance when it is necessary.

ADVANCED VOICE AND DATA CAPABILITY

Everything about the XPR7550 I.S. is designed for worker safety and productivity. A loud, clear speaker helps messages get through even in the noisiest environments, and the innovative Intelligent Audio feature automatically increases the volume when it senses high background noise levels. Radios can also be programmed with custom audio announcements for each channel.

The bright 5-line color display ensures that applications such as work-order ticketing are easily accommodated, and the integrated GPS functionality enhances worker safety and asset tracking capability. An integrated man-down and lone worker feature can be configured to send an instant alert if a mishap occurs. And importantly, the XPR 7550 I.S. has bright blue color coding to ensure CSA-approved units can be easily identified.

To complement the radio, Motorola's audio and energy accessories meet the most stringent CSA standards. Heavy-duty headsets and intrinsically safe smart batteries means your voice just got a lot stronger – even in hazardous environments.

PRODUCT SPEC SHEET
MOTOTRBO XPR 7550 I.S.

GENERAL SPECIFICATIONS

Frequency Band	UHF Band 1, VHF
Zone Capacity	250
Max. No. of Conv. Channels or Personality Capacity	1000
Dimensions (HxWxL) with Li-Ion non-FM Battery	5.5 x 2.2 x 1.6in 138.5 x 56.7 x 39.8mm (H x W x D)
Weight with Li-Ion non-FM Battery	17oz 482g
Power Supply	7.5 V
FCC Description	UHF Band 1: ABZ99FT4095 VHF: ABZ99FT3093
IC Description	UHF Band 1: 109AB-99FT4095 VHF: 109AB-99FT3093
Battery life ¹ with NNTN8386 IMPRES Li-Ion Battery	Analog: 12.0 hours (typ) 10.0 hours (min) Digital: 16.0 hours (typ) 13.5 hours (min)

RECEIVER

Frequencies	UHF Band 1 (403-470MHz) VHF (136-174MHz)
Channel Spacing	12.5/20/25kHz
Frequency Stability (-30° C, +60° C, +25° C)	±0.5 ppm
Analog Sensitivity (12 dB SINAD) Typical	0.25 µV
Intermodulation (TIA603C)	70 dB
Adjacent Channel Selectivity (TIA603C) - 1T	60dB @ 12.5kHz 70dB @ 20/25kHz
Adjacent Channel Selectivity (TIA603C) - 2T	60dB @ 12.5kHz 70dB @ 20/25kHz
Spurious Rejection (TIA603C)	70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-40dB @ 12.5kHz -45dB @ 20/25kHz
Audio Response	TIA603C
Conducted Spurious Emission (ETSI)	-57 dBm

TRANSMITTER

Frequencies	UHF Band 1 (403-470MHz) VHF (136-174MHz)
Talkaround	UHF Band 1 (403-470MHz) VHF (136-174MHz)
Channel Spacing	12.5/20/25kHz
Frequency Stability (-30° C, +60° C)	± 0.5 ppm
Low Power Output	1 W
High Power Output	UHF Band 1: 4W VHF: 5W
Modulation Limiting	±2.5kHz @ 12.5kHz ±4.0kHz @ 20kHz ±5.0kHz @ 25kHz
FM Hum and Noise	-40dB @ 12.5kHz -45dB @ 20/25kHz
Conducted / Rated Emission (ETSI)	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response	TIA603C
Audio Distortion (per EIA)	3%
FM Modulation	12.5 kHz: 11K0F3E 25 kHz: 16K0F3E

ENVIRONMENTAL SPECIFICATIONS

Allowed Operating Temperature Range Inside Hazardous Environments	-30° C to +60° C
Operating Temperature Range Outside Hazardous Environments	-30° C to +60° C
Storage Temperature (Radio Only)	-40° C to +85° C
Thermal Shock	MIL STD 810D, E, F, G
Humidity	MIL STD 810D, E, F, G
ESD	IEC-801-2KV
Water Intrusion (Outside Hazardous Environments)	IEC 60529 - IP67
Dust Intrusion (Inside Hazardous Environments)	IEC 60529 - IP6x
Packaging Test	MIL STD 810D, E, F, G

¹ Actual battery runtime observed may vary, based on the use of certain features such as GPS and Expansion Card-based applications.

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Version 5 01/14



XPR 7550 I.S. has been certified by Canadian Standards Association (CSA) as intrinsically safe for use in Division 1, Class I, Groups A, B, C, D, Class II, Groups E, F, G, and Class III, when properly equipped with a Motorola CSA approved battery NNTN8386. They are also approved for use in Class I, Division 2, Groups A, B, C and D. Temperature Code T4.

MOTOTRBO
DIGITAL
REMASTERED.

For more information on how to communicate safely in unsafe places, visit motorolasolutions.com/mototrbo. Or find your closest Motorola representative or authorized Partner at motorola.com/Business/US-EN/Pages/Contact_Us.

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