



**MOTOROLA**  
intelligence everywhere™



**MOTOROLA'S SMALLEST  
MPT PROFESSIONAL RADIO**

***PTX700 Plus / PTX760 Plus***

***PTX700 PLUS / PTX760 PLUS***

*COMPACT & RUGGED, THE PTX700 Plus AND PTX760 Plus ARE IDEAL FOR PROFESSIONALS ON THE GO*

Motorola's newest professional two-way radios packs a range of cutting edge innovations into one compact and lightweight radio designed to continue the Motorola heritage of offering the very best that MPT Trunked portable radios can offer. Introducing Motorola PTX700 Plus and PTX760 Plus - the smallest in Motorola's MPT-Trunked Professional Radio Series. They are compact, light and fit easily into the palm of your hand. Whether it's the harsh environment of a construction site or the elegance of an exclusive hotel, the radio of choice is PTX700 Plus and PTX760 Plus.

The MPT1327 trunking system is a signalling standard that defines an open air interface of speech and data services between radio terminals and the system. An MPT1327 system manages the network and radio users, synchronises and schedules call requests, calls individuals and groups of radio users and conducts call maintenance.



# PTX700 Plus

## **PTX700 PLUS: COMPACT AND EASY TO USE**

The PTX700 Plus is the affordable communication solution for professionals who require a small size, rugged and reliable radio to stay in contact. This popular radio increases productivity, keeping users communicating, whilst allowing them to concentrate on their jobs.

## **SIGNALLING**

The fully compliant MPT signalling package includes MPT1343, Regionet 43 and ANN modes of operation.

## **MULTIPLE PERSONALITIES**

Configurable for up to 2 personalities – Trunked (inclusive of Talkgroup Select mode) and/or Conventional to suit different communication needs.

## **WIDEBAND AND PROGRAMMABLE CHANNEL SPACING**

Provides flexibility in deployment and stocking.

## **X-PAND™ VOICE COMPRESSION AND LOW LEVEL EXPANSION**

As with any radio, sound quality is critical for effective communications. Motorola's MPT-Trunked Professional Radio series can be heard in almost any environment because of Motorola's unique voice compression and expansion technology called X-PAND™. X-PAND enables crisper, clearer and stronger audio quality, allowing users to continue communicating even in noisy conditions. In addition, Low Level Expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.

## **DYNAMIC REGROUPING**

Enables the field radio to be re-assigned to flexible grouping over the air without the necessity to return the radio to the workshop for re-programming.

## **MISSED CALL ALERTS**

The radio can store an incoming caller identity and prompt the user to return the call they receive. This eliminates the risk of losing important calls.

## **EMERGENCY CALL**

Addressing the need for urgent communications in an emergency, the PTX700 Plus provides an immediate call set-up capability, even when the system is busy or during overloaded periods.

## **TIME-OUT TIMER**

Limits the amount of time a user has to continuously transmit on a channel. This allows for more efficient use of the channel.



# PTX760 Plus

## **PTX760 PLUS: COMPACT & VERSATILE**

The PTX760 Plus offers a versatile MPT Trunked professional radio solution for those who require additional features to meet their expanding communication needs. No matter where it is used, in the rugged environment of the surveillance industry or the posh elegance of a hotel, the PTX760 Plus is the radio of choice for any growing organisation. Building upon the wide-ranging features of PTX700 Plus, the PTX760 Plus has the following additional offerings:

## **4 PERSONALITIES**

Configurable for up to 4 multiple personalities – Trunked (inclusive of Talkgroup Select mode) and/or Conventional; offering users the flexibility in meeting their diverse communication needs.

## **USER INFORMATION**

The 14 character alpha-numeric display contains useful icons and information; such as a radio signal strength indicator which informs users of the signal strength in the vicinity and a battery gauge icon which alerts users on battery strength – key information that assists users in ensuring optimum communication efficiency. The PTX760 Plus also provides distinctive ringing tones and alpha-tagging of incoming calls, enabling audio and visual caller-identification.

## **FAST ACCESS DIALLING AND INTUITIVE MENUS**

One-touch dialling (dedicated and speed-dial buttons), easy to use menus and an alpha-numeric phonebook/contact list make the full power of the radio simple and intuitive to use.

## **STATUS MESSAGING**

There are up to 32 status messages can be pre-configured to improve productivity, reduce speech call time and reduce network traffic congestion. Commonly use response can now be communicated with status messages rather than voice. Statuses received can be stored within the radio and viewed later.



Actual size

## GENERAL SPECIFICATIONS

	PTX700 Plus	PTX760 Plus
Power Supply	Rechargeable battery 7.5V	
Dimensions: H x W x D (mm)	Height excluding knobs	
With standard Lilon battery	101.5 x 55.5 x 30.5	101.5 x 55.5 x 33.0
With high capacity Lilon battery	101.5 x 55.5 x 35.5	101.5 x 55.5 x 38.0
Weight: (gm)		
With Standard Lilon battery	250	265
With high capacity Lilon battery	270	285
Average Battery Life @5/5/90 Cycle:	Low Power	High Power
With Standard Lilon battery	>9 hours	>7 hours
With high capacity Lilon battery	>13 hours	>10 hours
Sealing:	Withstands rain testing per MIL STD 810 C/D/E and IP54	
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603	
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E and TIA/EIA 603	

## TRANSMITTER

*Frequencies - Full Bandsplit	UHF 1: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-30°C to +60°C, +25° Ref.)	2.5 ppm
Power	Low: 1W High: 4W
FM Hum & Noise	-40 dB typical
Conducted/Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 khz -70 dB @ 20/25 khz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	3%

## RECEIVER

*Frequencies - Full Bandsplit	UHF 1: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA	0.25 µV
Intermodulation (EIA)	-70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	-70 dB
Rated Audio	0.5W
Hum and Noise	-40 dB @ 12.5 khz -50 dB @ 20/25 khz
Conducted Spurious Emission ETS300 086	-57 dBm < 1 Ghz -47 dBm > 1 Ghz
Audio Distortion	3%

\* Specifications subject to change without notice. All Specifications and Methods refer to EIA/TIA 603

## ACCESSORISE AND ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is available so that Motorola's MPT-Trunked Professional Radio Series can be customised to suit your unique applications. Adding the proper headsets, microphones, batteries, chargers or carry cases can enhance the productivity of the two-way radio users.

Motorola accessories are built with the highest quality standards and are specially engineered to ensure maximum performance for your radio, no matter what profession you're in.



Rapid Rate Desktop Charger HTN3006



Multi-Unit Rapid Charger PMTN4031



Soft Leather Case with Swivel Clip PMLN4521



Slim & Hicap Lilon Batteries JMNN4023/JMNN4024



FM NiMH Battery JMNN4025

### One-Year Warranty

Each Motorola radio is backed by a one-year warranty on radio parts and labour.



#### Accelerated Life Testing

Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP64 for Sealing.



#### MIL-STD 810C, D and E

Stamp of approval from the U.S. Military for use in rough environments.



#### ISO 9001 Standard

Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.

For more information, please contact:



Visit us at [www.motorola.com/cgiss/AP](http://www.motorola.com/cgiss/AP)  
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### Portable Military Standards 810, C D and E

Applicable MIL-STD	Methods	Procedures
High Temperature	501.3	1
Low Temperature	502.3	1 & 2
Temperature Shock	503.3	1
Solar Radiation	505.3	1
Humidity	507.3	3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1