

Brochure

MXP7000

TETRA and LTE portable device

Your apps. Your comms. Your team. Together.





MXP7000

Mission-critical converged TETRA and LTE portable device

The MXP7000 provides versatile communications. It delivers mission-critical TETRA and 4G LTE broadband voice and data communications, in a secure and rugged Android device.

It's easy to use and operate the MXP7000. The large push-to-talk button lets users connect instantly, and the field-swappable battery helps them stay connected longer. Innovative audio technology enables your personnel to hear and be heard clearly, even in noisy and windy conditions. It has a 5 inch touchscreen and the device can run applications for optimal workforce productivity.

The MXP7000 is easy to deploy and manage. Time consuming device updates are streamlined with Over-the-air updates available via LTE and Wi-Fi.

It has a GCAI-mini connector, so you can provide your teams with accessories tailored to their needs.

No matter their mission, the MXP7000 is a device that helps your teams get the job done.





Rugged converged device

Mission-critical connectivity in a single device

The MXP7000 is a fully-featured mission-critical portable device with TETRA and LTE broadband voice and data communications. It enables individuals who work in challenging environments to stay connected and share large amounts of data from a single communication device.

Location precision

When the unexpected happens, it's important to know exactly where your people are. The MXP7000 supports GPS and aGPS (Assisted GPS) as well as other Global Navigation Satellite Systems (GNSS) including Galileo, Beidou and GLONASS.

Rugged and ready for action

The rugged MXP7000 is ready to handle tough conditions, so your personnel can work in all kinds of environments and weather, safe in the knowledge their device will keep them connected.

The display is made from tough Corning® Gorilla® glass. The MXP7000 has been tested to the MIL-STD-810H military standard developed by the U.S. Department of Defence. With its IP68 rating¹, the device can handle dust, dirt and submersion in water.

¹ Selected models. Please see the specifications sheet for more details: www.motorolasolutions.com/mxp7000

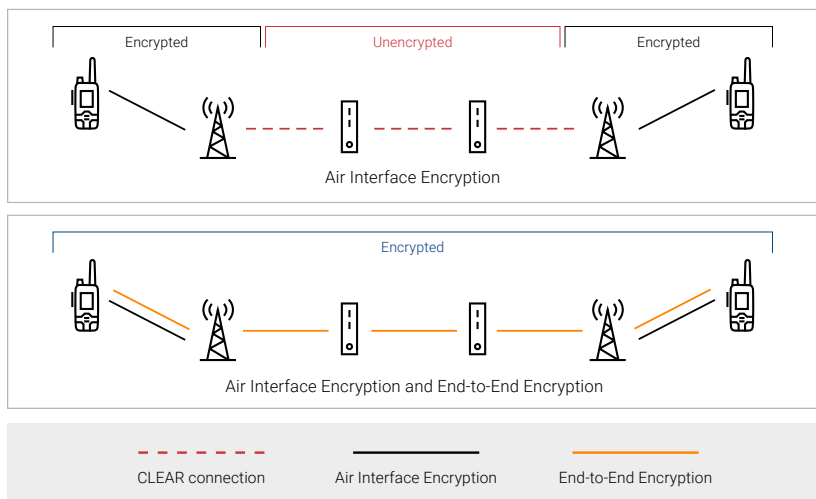


Secure communications

Staying protected against threats is crucial. The MXP7000 is a highly secure converged TETRA and LTE device with multiple levels of security to protect your mission-critical device, data and communications. TETRA security features include Air Interface Encryption² (AIE) that encrypts data between terminals and base stations, and Over-The-Air-Rekeying³ (OTAR) which enables radio users to stay out in the field and have encryption keys remotely pushed to their device.

End-to-End Encryption (E2EE)

The MXP7000 also offers the ability to have End-to-End Encryption (E2EE). This provides an additional layer of protection above AIE and is available on the MXP7000 via an optional Hardware Security Module (HSM). The HSM also uses military-grade 128-bit AES or 256-bit AES to encrypt voice, data and location information from sender to receiver⁴.



The MXP7000 is security hardened with a range of security features including:

- User Authentication using PIN or password
- Hardware-backed encryption with Trusted Execution Environment (TEE) for key storage
- Trusted boot process with the use of tamper resistant hardware
- Android OS hardening and SELinux access control
- Auditing / logging functionality, with security logs captured and stored in a secured manner
- Data-at-Rest protection using Android's AES256 File Based Encryption
- Data-in-Transit encryption with IPsec VPN support
- Secured device management and configuration with the use of our Integrated Terminal Management (iTM) solution
- Restricted Recovery Mode to avoid unauthorized access to features

² MXP7000 supports TEA 1, TEA 2, TEA 3

³ Supports: Group Cypher Key (GCK), Common Cypher Key (CCK) and Static Cypher Key (SCK)

⁴ Please talk with your local Motorola Solutions representative about the availability of these options in your region.



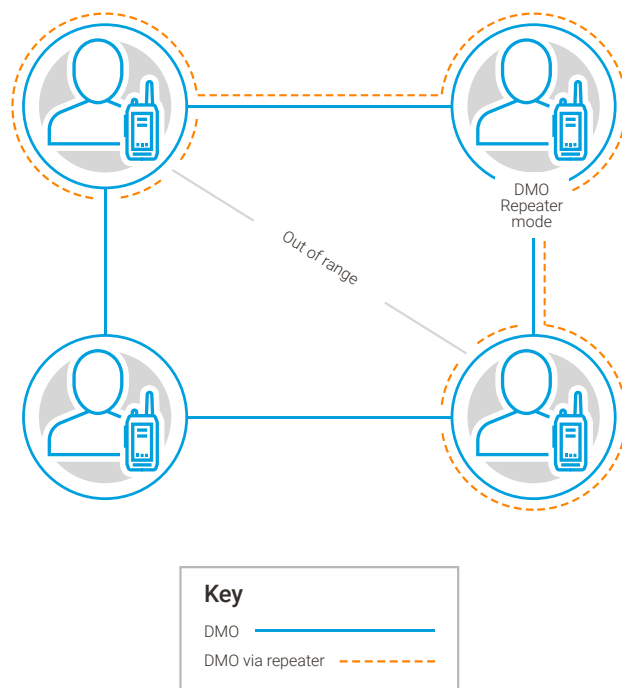


Mission-critical TETRA voice and data communications

Rely on TETRA voice and data communications

The MXP7000 has been designed to provide workers with reliable TETRA coverage for voice and data.

It has high receiver sensitivity and 1.8 watt transmission power, allowing users to maintain conversations and send SDS messages over large distances. As well as featuring Trunked Mode Operation (TMO) for transmitting over the TETRA network, the MXP7000 also includes Direct Mode Operation (DMO) so that radios can communicate directly and independently with each other. In addition, the MXP7000 has DMO repeater functionality to act as a bridge between users who are out of coverage of each other, but within coverage of the first MXP7000. These features enable teams to stay in constant contact and react to whatever happens, whenever it happens.



With mission-critical coverage, the MXP7000 keeps teams connected in a wide array of environments, from rural locations to busy city streets and even inside buildings.



Mission-critical TETRA audio

Being able to hear and be heard clearly, even in windy conditions or with loud background noise, is vital for successful communications. The MXP7000 features an intelligent 3+1 audio architecture, for TETRA voice calls, made up of three microphones and a powerful loudspeaker. The loudspeaker can provide audio up to 99 Phon and can automatically be used as an additional microphone to reduce wind noise. The MXP7000 incorporates industry-leading audio processing technology to improve communications and ensure vital messages get through. Coupled with our exclusive advanced adaptive beam-forming noise suppression technology, the intelligent audio architecture enables your personnel to be heard and understood, no matter how tough the conditions.

Adaptive multi-microphone beam-forming noise suppression

Many radios use just one microphone and software algorithms to filter out noise during a group call. The MXP7000 uses an additional microphone on the back of the device, along with advanced algorithms for optimal noise suppression.

These microphones are arranged to optimise coverage for typical usage positions. Using beam-forming technology along with our adaptive noise suppression, we can effectively optimise the user's speech level while minimising the impact of loud background noise. The result is a device that gives you confidence that your users will be heard even in working situations with loud background noise.

Howling suppression for TETRA voice

Using multiple radios in close proximity to one another, that are affiliated with the same talkgroup, can sometimes cause acoustic feedback howling and distortion that compromises radio communications. When enabled, the MXP7000 howling suppression audio profile will suppress this unwanted effect, resulting in clear and uninterrupted conversations.

Adaptive wind noise mitigation

The MXP7000 keeps communications clear and intelligible even in windy conditions. Our adaptive algorithm detects when wind noise is present during a group call transmission. Using our patented technology, the MXP7000 then automatically employs the loudspeaker as an additional microphone for optimal wind noise mitigation. This innovative design significantly reduces the impact of wind noise, allowing for improved clarity of transmitted speech.

Intelligent 3+1 audio architecture

- Adaptive multi-microphone beam-forming technology for enhanced noise suppression.
- The internal loudspeaker can operate a microphone to minimise wind noise.





Enhanced with LTE voice and data capabilities

Unlock powerful LTE mobile broadband

Equip users with a single device that not only provides mission-critical TETRA voice and data communications but also broadband voice and data capabilities via LTE, as well as the ability to run Android applications.

The MXP7000 can run work applications created for your specific use cases. Whether it's location data on a military training exercise, PTT via WAVE PTX™, mobile video footage from a roadside incident or servicing updates on the rail network, users get real-time visibility of the latest information.

The MXP7000 can provide MCPTT-based features over LTE broadband via WAVE PTX.



Share images and video

Capturing and sharing visual information on a mission or at an incident helps teams understand issues and plan the best course of action. The MXP7000 includes a 13 megapixel rear camera with integrated flash and 8 megapixel front camera for taking high quality images and video. The video can also be streamed live over LTE.

Create a local Wi-Fi hotspot

Users can create a local Wi-Fi bubble with the MXP7000 for Wi-Fi enabled devices, such as a tablet. This enables devices tethered to the MXP7000 Wi-Fi Access Point to send and receive information over LTE.

Extend PTT to LTE

The WAVE PTX™ application can run on the MXP7000 to provide PTT over LTE broadband. WAVE PTX is a carrier-independent broadband PTT service that delivers the MCPTT-based features necessary to enhance user safety, increase situational awareness, and improve operational efficiency. It allows the MXP7000 user to communicate over an LTE network using the WAVE PTX application.





Easy
to use



Effortless operation in the field

The MXP7000 has been designed for ease of use and operational efficiency in the field.

There's an array of easy-to-use controls, including a large dual-function rotary knob for volume and talkgroup selection, two programmable buttons for activating frequently used functions, and a large dedicated push-to-talk (PTT) button for instant communications. With a GCAI-mini connector on the MXP7000, you can provide your teams with accessories tailored to their needs. The MXP7000 also supports Bluetooth® 5.1 for data transfer. Should users get into difficulties, the MXP7000 includes a large top-mounted emergency button that's protected from accidental activation, as well as an automatic Fall Alert (Man Down) feature. The camera flash LED on the back of the device can be used as a flashlight.

The MXP7000 features a toughened Corning® Gorilla® glass 5 inch touch screen display to take advantage of the capabilities of Android applications. The display has been optimised to support use with gloves, including disposable and combat gloves. Above the screen two status LEDs provide separate notifications for TETRA and LTE.

As all batteries eventually run out, the MXP7000 battery is easy to swap in the field – to enable teams to stay connected for longer.

Supports night-time operations

The MXP7000 has a night vision mode that makes it suitable for military operations. This dims the display screen to a very low intensity that can only be seen effectively while wearing night vision goggles.

The MXP7000 has intuitive controls and a rugged 5 inch touch screen.



MXP7000



Accessories

Provide an experience tailored to your team with a wide range of accessories⁵ for the MXP7000.

Audio

There is a range of compatible audio accessories including remote speaker microphones and headsets for the MXP7000.



Energy

A variety of charging solutions are available — dual-unit and multi-unit⁶ chargers, as well as USB-C charging via a wall adapter. Additional batteries are also available, so your teams can swap batteries in the field and keep going.



Carry

Whether your team wants to wear the radio on the chest or hip, there's a range of carry accessories to choose from. The carry accessories are all designed for easy, yet secure access to the MXP7000 and include carry cases and belt clips.



⁵ For a complete list of MXP7000 accessories, please talk with your local Motorola Solutions representative.

⁶ MXP7000 devices are programmed via the multi-unit charger connected to the Motorola Solutions Integrated Terminal Management (iTM) solution.





Simple to deploy and manage

Streamlined field deployment

The MXP7000 uses the same Integrated Terminal Management (iTM) tool as other TETRA radios from Motorola Solutions for fast and easy programming of your fleet. The MXP7000 uses the multi-unit charger as a programming hub.

Over-the-air updates via LTE and Wi-Fi

The MXP7000 supports LTE as well as 2.4 GHz and 5 GHz bands of Wi-Fi. Radio managers can take advantage of broad data pipe of LTE and Wi-Fi for device programming and updates⁷. Updates can be handled remotely in the field, in the background, while the radio is still in use. Radio administrators can wirelessly program many MXP7000 radios at once. Connections between the radio and the Integrated Terminal Management (iTM) server are secured via the Transport Layer Security protocol. Planned upgrades that would have taken weeks can now be done in a few hours or days.

⁷ Requires MR2025.3 or newer.



Get the most from your MXP7000

To support your MXP7000 fleet and maximise the value of your investment, we offer a one-year standard warranty. There is an option to extend that warranty with additional services⁸ such as:

Hardware repair

Troubleshooting, testing and repairing your equipment at a centralised facility

Technical support and service desk

Remote technical support services to ensure your radios are rapidly restored and functional

Software maintenance

Access to latest certified software releases for reliable and secure device operations

⁸ Please talk with your local Motorola Solutions representative for more details.





To learn more, visit:
www.motorolasolutions.com/mxp7000



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All specifications are subject to change without notice.

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