

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.

Your apps. Your comms. Your team. Together.

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.



GENERAL SPECIFICATIONS	
SOFTWARE	
Operating system	Android™ 13 Non-GMS
HARDWARE	
Dimensions	- Height: 210 mm (with antenna) - Height: 150 mm (without antenna) - Width: 80 mm - Depth: 29.9 mm (with battery)
Weight	440 g (with battery and antenna)
Battery options	5600 mAh IMPRES™ 2
Housing colour	- Black - Green (selected models)
Display	5.0", 1280 x 720 Capacitive, touch-screen with Corning® Gorilla® glass - Supports use with disposable and combat gloves
Controls	- Large push-to-talk button - Emergency button - Dual function rotary knob 2 configurable side buttons
Memory	4GB RAM 64GB internal storage - MicroSD slot¹
SIM slots	- TETRA SIM: 2FF (Mini SIM)² - LTE: 4FF (Nano SIM)
Camera	- Rear 13 MP, with integrated flash - Front 8 MP
Video recording quality	1080p at 60 fps
Sensors	Proximity, Ambient light, Accelerometer, Barometer, Gyroscope, E-Compass
Ports	GCAI-mini, USB-C
DEVICE SECURITY	
User authentication	PIN or password
Key storage	Hardware-backed encryption with Trusted Execution Environment (TEE)
Trusted boot process	Included with the use of tamper resistant hardware
OS hardening	Android OS hardening and SELinux access control
Auditing	Auditing / logging functionality, with security logs captured and stored in a secured manner
Data-at-rest	Using Android's AES256 file based encryption
Data-in-transit	Encryption with IPSec VPN support
Secured device management	With the use of Integrated Terminal Management (ITM) solution
Restricted recovery mode	Included to avoid unauthorised access to features
AUDIO	
Audio power at rated	2 W
Audio distortion at rated	<1%
Audio power at maximum	3 W
Maximum loudness	99 Phon
Noise supression	Adaptive multi-microphone beam-forming
Number of microphones	3 dedicated + 1 loudspeaker as microphone

TETRA SERVICE	
RF	
Frequency bands	380-430 MHz
Transmitter RF power	Class 3L (1.8 W), Class 4 (1.0 W)
Adaptive power control	Per EN 300 392-2
Receiver class	A and B
Receiver static sensitivity	-116 dBm (guaranteed) -118 dBm (typical)
Receiver dynamic sensitivity	-107 dBm (guaranteed) -109 dBm (typical)
DMO REPEATER	
DMO repeater mode features and functions	- ETSI type 1A DMO repeater for channel efficient operation - Repeats DMO voice and tone signalling on selected talkgroup - Repeats SDS and status messaging on selected talkgroup - Transmission of repeater presence signal - Emergency call (pre-emptive priority call) - Monitoring of and participation in calls whilst in repeater mode
DATA	
Short data	- Status messaging in TMO and DMO - SDS messaging in TMO and DMO - Supports concatenated SDS (1000 characters)
VOICE	
Full duplex call	TMO: Private, PSTN, emergency
Half duplex call	TMO: Private, group, emergency
Emergency call management (user customisable)	- DMO: Private, group, emergency - Non-Tactical: Emergency group call to dedicated talkgroup - Hot Mic: Allows user to talk without needing to press PTT button - Emergency status message to dispatch console
Other voice functions	- Gateway - Repeater - Repeater mode - PTT double push - Pre-emptive priority calls
SECURITY ³	
Authentication	Infrastructure initiated and made mutual by radio terminal
Air interface encryption algorithm options	- TEA 1 - TEA 2 - TEA 3
Protocols - security classes	- Class 1 (Clear) - Class 2 (SCK) - Class 3 (DCK/CCK, OTAR-CCK, OTAR-SCK) - Class 3G (GCK, OTAR-GCK)
End-to-end encryption options	- AES128 or AES256 for voice and short data with OTAK supported through optional Hardware Security Module (HSM) - SIM based encryption including BSI
Other security features	- Temporary disable (stun) - Permanent disable (ESTI standard and customer restorable)

¹ Future software release required to support storage use.

² For BSI encrypted models only.

³ Not all security options are available in every country, please contact your Motorola Solutions representative for more details.





CONNECTIVITY	
TETRA ANTENNA	
Connector	SMA
Impedance	50 Ω
LTE / 3G / 2G	
LTE bands	Standard models: B1, B2, B3, B4, B5, B7, B8, B19, B20, B26, B28 BSI Encrypted models ⁴ : B3, B7, B20, B28
3G bands	Standard models: B1, B2, B4, B5, B8 BSI Encrypted models ⁴ : B1, B8
2G bands	Standard models: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz BSI Encrypted models ⁴ : 900 MHz, 1800 MHz
WI-FI	
IEEE standards supported	802.11 a/b/g/n/ac
Wi-Fi bands	2.4 GHz and 5 GHz
BLUETOOTH	
Bluetooth® versions supported	Bluetooth 5.1 (data transfer only)
Bluetooth profiles	• Generic Attribute (GATT) • Attribute Protocol (ATT) • Generic Access Profile (GAP) • Serial Port Profile (SPP) • Personal Area Networking Profile (PAN) • Object Push Profile (OPP)
LOCATION SERVICES	
Constellation supported	GPS, aGPS, Galileo, GLONASS, BDS (BeiDou)
GNSS antenna	Internal antenna
GNSS tracking sensitivity	GPS: • -158 dBm (50% fix losses) • -162 dBm (typical)
Horizontal accuracy, 2D	<5 m (95% probable, -130 dBm)
TTFF cold start	<60 sec (95% probable at -130 dBm)
Protocols	ETSI LIP (short and long), Motorola Solutions LRRP

⁴ Germany only.

⁵ TETRA communication is still available.

KEY FEATURES AND SETTINGS	
DEVICE	
Airplane mode ⁵	Turns ON/OFF mobile data, Wi-Fi and Bluetooth simultaneously
Location	Turns ON/OFF location functionality
Sound	• Media volume • Radio and voice calls • Ring and notification volume • Alarm volume
Night vision goggle (NVG) mode	Turn ON to set the display luminance for use with night vision goggles. LEDs will be turned OFF when in NVG mode
Display brightness level	Manual and automatic brightness adjustment
Flashlight	Toggle LED flashlight ON/OFF
TETRA	
Talkgroup management	User friendly, flexible, fast and efficient interface
Talkgroups	• TMO folders: up to 256, TMO talkgroups: up to 10000 • DMO folders: up to 128, DMO talkgroups: up to 2000
Favourite talkgroup folders	Up to 3
Contacts management	Rapid search to find the contact easily
Contacts	Up to 1000 contacts
Multiple dialling methods	Dialling direct, scroll and select via touchscreen
Call alert	Vibrate alert and set ringtones via Android™ settings
Fall alert (man-down)	Triggers an emergency alert if the device is continuously tilted beyond a pre-defined angle
Message management	Distinct folders for each message type for flexible message management
Text message list	• Up to 200 entries (short messages) • At least 20 entries for outbox (long messages up to 1000 characters) • At least 10 entries for inbox (long messages up to 1000 characters)
Status list	• Up to 100 user-defined messages • Assignable to One Touch Buttons
Transmit inhibit	Disables TETRA transmit and puts device into airplane mode

DEVICE MANAGEMENT SOLUTIONS	
Integrated Terminal Management (iTM) ⁶	Requires iTM version 8.2.1 or newer
Over-the-air programming / updates ⁷	Via LTE and Wi-Fi
OTAP security	TLS 1.2 for OTAP via LTE and Wi-Fi
ENVIRONMENTAL SPECIFICATIONS	
Operating temperature ⁸	-20 °C to +60 °C
Storage temperature	-40 °C to +85 °C
Humidity (high), low and high temperature	ETSI 300 019-1-7 class 7.3E
Shock (bumps and shock), vibration (random)	ETSI 300-019 1-7 class 5M3
Dust and water ingress protection	• Black model: IP68 per IEC 60529 • Green model: IP67 per IEC 60529

US MILITARY STANDARD MIL-STD-810H		
	METHOD	PROC/CAT
Low pressure	500.6	II
High temperature	501.7	I/A1,II
Low temperature	502.7	I,II
Thermal shock	503.7	I-C
Solar radiation	505.7	I/A1
Humidity	507.6	II / Aggravated
Salt fog	509.7	–
Blowing sand	510.7	II
Vibration	514.8	I/Cat 24,II/Cat 5
Shock ⁹	516.8	I,IV,VI

⁶ To be used in combination with the MXP7000 multi unit charger.

⁷ Requires Integrated Terminal Management (iTM) software and MXP7000 using MR 2025.3 or later.

⁸ Performance may be limited when operating at extreme temperatures.

⁹ Drop test is covered as part of Shock Method 516.8 Proc IV, VI.

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



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All specifications are subject to change without notice.

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