

## 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, and it supports Bluetooth® 5.1 for data transfer. 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 SPECIFICAT	IONS		
SOFTWARE			
Operating System	Android 11 Non-GMS		
HARDWARE			
Dimensions	Height: 210 mm (with antenna) Height: 150 mm (without antenna) Width: 80 mm Depth: 29.9 mm (with battery)		
Weight	440g (with battery and antenna)		
Battery options	5600mAh 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 slot <sup>1</sup> TETRA SIM: 2FF (Mini SIM) <sup>2</sup>		
SIM Slots	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	2W		
Audio distortion at rated	<1%		
Audio power at maximum	3W		
Max loudness	99Phon		
Noise supression	Adaptive multi-microphone beam-forming		
	3 dedicated + 1 loudspeaker as microphone		

380-430MHz
Class 3L (1.8 W) Class 4 (1 W)
Per EN 300 392-2
A and B
-116 dBm (guaranteed) -118 dBm (typical)
-107 dBm (guaranteed) -109 dBm (typical)
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
Status messaging in TMO and DMO
SDS messaging in TMO and DMO Supports concatenated SDS (1000 characters)
TMO: Private, PSTN, emergency
TMO: Private, group, emergency
DMO: Private, group, emergency
Non-Tactical: Emergency group call to dedicated talkgroup
Hot Mic: Allows user to talk without needing to press PTT butto
Emergency status message to dispatch console
Gateway
Repeater
Repeater mode
PTT double push
Pre-emptive priority calls
Infrastructure initiated and made mutual by radio terminal
TEA 1 TEA 2 TEA 3
Class 1 (Clear) Class 2 (SCK) Class 3 (DCK/CCK, OTAR-CCK, OTAR-SCK) Class 3G (GCK, OTAR-GCK)
AES128 or AES256 for voice and short data with OTAK supported through optional Hardware Security Module (HSM)
SIM based encryption including BSI
Silvi based encryption including boi

 $<sup>^{\</sup>mbox{\tiny 1}}$  Future software release required to support storage use



<sup>&</sup>lt;sup>2</sup> For BSI encrypted models only

<sup>&</sup>lt;sup>3</sup> 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 <sup>4</sup> : B3, B7, B20, B28	
3G bands	Standard models: B1, B2, B4. B5, B8	
SG ballus	BSI Encrypted models <sup>4</sup> : B1, B8	
2G bands	Standard models: 850MHz, 900MHz, 1800MHz, 1900 MHz	
	BSI Encrypted models <sup>4</sup> : 900MHz, 1800MHz	
WI-FI		
IEEE standards supported	802.11 a/b/g/n/ac	
Wi-Fi bands	2.4GHz and 5GHz	
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: -158dBm (50% Fix losses) -162dBm (typical)	
Horizontal Accuracy, 2D	<5m (95% probable, -130dBm)	
TTFF cold start	<60 sec (95% probable at -130dBm)	
Protocols	ETSI LIP (short and long), Motorola Solutions LRRP	

KEY FEATURES AND SETTINGS				
DEVICE				
Airplane Mode <sup>5</sup>	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			
Text entry	Touchscreen for ease of use			
Transmit Inhibit	Disables TETRA transmit and puts device into airplane mode			

 $<sup>^{\</sup>rm 5}$  TETRA communications is still available.



<sup>&</sup>lt;sup>4</sup> Germany only.

DEVICE MANAGEMENT SOLUTIONS			
Integrated Terminal Management (iTM) <sup>6</sup>	Requires iTM version 8.2.1 or newer		
ENVIRONMENTAL SPECIFICATIONS			
Operating temperature <sup>7</sup>	-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 <sup>8</sup>	516.8	I,IV,VI		

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



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All specifications are subject to change without notice.

 $<sup>^{\</sup>rm 6}$  To be used in combination with the MXP7000 multi unit charger.

 $<sup>^{\</sup>rm 7}\,{\rm Performance}$  may be limited when operating at extreme temperatures.

 $<sup>^{\</sup>rm 8}$  Drop test is covered as part of Shock Method 516.8 Proc IV, VI.