MISSION CRITICAL COMMUNICATION SOLUTIONS

MTP6550 TETRA PORTABLE

Designed based on direct input from front line officers, the MTP6550 TETRA portable delivers the intuitive operation, reliability and uncompromising performance that is vital to mission critical operations.

Delivering real time access to critical information from the field can improve the efficiency as well as the effectiveness of the workforce. The MTP6550 provides you with a platform for sharing critical intelligence across the force through its integrated data capabilities. Designed for operation in high stress environments, the MTP6550 radio offers unmatched usability, ruggedness and performance, ensuring that front line officers can focus on the job, not the technology.

EFFICIENT DATA SHARING

If you are a paramedic, a fire incident commander or a law enforcement officer, you need access to critical information in the field. For efficient information sharing, the MTP6550 radios offer unmatched TETRA data connectivity in a handheld device. As your use of data applications increases, you will also have the assurance of a radio that is hardware-ready to support much faster data transfer speeds using the TETRA Enhanced Data Service (TEDS) - delivering up to 20x faster data connectivity.

A large, vibrant colour display makes the MTP6550 an ideal solution for consuming rich content and viewing multiple lines of text. The high-resolution display also makes it easy to view detailed images and elevates the user experience for mobile applications with visual content.

STREAMLINED DISPATCH AND TASKING OPERATIONS

In an emergency, every second counts. Reaching a successful outcome is about mobilising the most appropriate resources, nearest to the incident. The optional built-in GPS ensures that dispatchers receive accurate personnel location data, helping to optimise response times.

A suite of information "push" services allows dispatchers to send messages directly to the radio's screen. With the Call Out feature, messages requiring a mandatory acknowledgement can be pushed to the radio's screen, helping to ensure that critical messages get out to selected users.

PROTECT YOUR INVESTMENT FROM THE UNEXPECTED

Service from the Start* provides complete peace of mind with mission-critical support for your TETRA radios. It offers multi-year coverage against normal wear and tear, fast repair turnaround times and expert telephone technical support; all backed by Motorola's globally integrated services infrastructure, highly qualified support technicians and certified repair facilities. Service from the Start with Comprehensive Coverage provides even greater support with the additional benefit of coverage for internal and external components damaged through accidental breakage. With Service from the Start you're covered – keeping your devices running and in the hands of the user.

*Availability may vary by country. Please check with your local Motorola representative for full details.

REDEFINING SAFETY FOR THE EMERGENCY RESPONDER

From intuitive mission critical design and industry- leading audio to unmatched coverage performance, the MTP6550 has been engineered to deliver uncompromising performance. Rugged and reliable, you can be sure that this radio will stand up to the harshest conditions - and even continue to operate after submersion in water.

By enabling emergency responders to stay connected with their team members at all times, these capabilities are vital to keeping them safe.

FEATURES

- EMERGENCY ALERT BUTTON
- PROGRAMMABLE MULTI-FUNCTION ROTARY KNOB SUPPORTING VOLUME SETTING, TALKGROUP SELECTION
- STATUS INDICATOR
- PTT WITH ENHANCED TACTILITY
- PROGRAMMABLE KEY
- HIGH PERFORMANCE AUDIO BASED ON MOTOROLA SLIM PORT TECHNOLOGY
- MAN-DOWN FEATURE ACTIVATES EMERGENCY ALERTING BASED ON MOTION DETECTION AND INCLINE ANGLE THRESHOLD SETTINGS
- PATENTED HELICAL GPS ANTENNA INTEGRATED INTO TETRA ANTENNA
- ANTENNA RING ACCESSORY FOR COLOUR-CODED LABELLING
- TOP MICROPHONE
- LARGE 2" QVGA DISPLAY WITH 262,000 COLOURS WITH FAST RESPONSE USER INTERFACE
- MOTOROLA GCAI RUGGED SIDE CONNECTOR FOR AUDIO ACCESSORIES. INCLUDES USB SUPPORT
- ROBUST KEYPAD WITH ENHANCED TACTILITY
- AUTOMATIC KEYPAD BACKLIGHT
- RUGGED PRODUCT DESIGN WITH IP57 SUBMERSIBILITY
- BOTTOM MICROPHONE
- EXTERNAL ANTENNA CONNECTOR
- GRIP TEXTURE
- MICRO SD CARD MEDIA STORAGE
- INTEGRATED BLUETOOTH TECHNOLOGY
- ROBUST BATTERY LATCH
- RUGGED BOTTOM CONNECTOR WITH SELF-CLEANING DESIGN AND CORROSION RESISTANCE. OFFERS USB SUPPORT

MTP6550 TETRA PORTABLE

Keypad	Automatic keypad backlight 4 direction navigation key 3 selection keys 4 x 3 keypad
One Touch Buttons	Single button activation for multiple functions
Controls	Large PTT button with enhanced tactility Emergency Button Programmable multi-function rotary switch 2 programmable side keys
Additional Storage	Micro SD card *
Battery Options	Standard battery: 1650 mAh High capacity battery: 2150 mAh

SIZE AND WEIGHT

Height	132mm
Width	59mm
Depth	34mm (with standard battery)
Weight with standard battery	292g (with 80mm stubby antenna)

RF SPECIFICATIONS

Frequency Bands	350-470 MHz
Transmitter RF Power	Class 3L (1.8W) & Class 4 (1W)
RF Power Level Accuracy	+/- 2 dB
Adaptive Power Control	Per EN 300 392-2
Receiver Class	A and B
Receiver Static Sensitivity	-114dBm (min); -116dBm (typical)
Receiver Dynamic Sensitivity	-105 dBm (min); -107 dBm (typical)

DMO REPEATER SERVICES

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

LOCATION SERVICES

GPS Tracking Sensitivity	-159 dBm (guaranteed) -160 dBm (typical)
GPS Accuracy	<5m (probable at -130dBm)
Protocols	ETSI LIP Motorola LRRP

LICENSED OPTIONS

Software upgrade optional features	TETRA Enhanced Data Service (TEDS) Multi-Slot Packet Data (MSPD) WAP Browser WAP Push Service Bluetooth Support GPS Call Out Enhanced Security: OTAR/DMO SCK Air interface encryption End to End Encryption Options Permanent disable Temporary disable RUA/RUI Man-Down feature Class 3L (1.8W) transmit power RF Repeater Language options

ACCESSORIES

Antennas (short stubby, long stubby, whip)

Coloured rubber antenna ring labels

Batteries (Li Ion 1650 mAh and 2150 mAh)

Battery chargers and vehicle adapters

Various carry options

Audio headsets

Remote speaker microphones

Earpieces

In-Vehicle Solutions

USB programming and data cables

* Micro SD card slot not available on models that support hardware-based End to End Encryption.

SECURITY SERVICES

Authentication		Infrastructure initiated and made mutual by radio terminal
Air Interface Encryption	Algorithms	TEA1, TEA2, TEA3
Protocols	Security Classes	Class 1 (Clear), Class 2 (SCK), Class 3 (GCK)
End to End Encryption		Enhanced End to End Encryption with OTAK supported through AES128 or AES256 Hardware or SIM based

DATA SERVICES

Short Data	STATUS messaging in TMO & DMO SDS messaging in TMO & DMO Short Data applications
TNP1	Simultaneous operation of Packet Data and Short Data Services over a common Peripheral Equipment Interface (PEI)
AT Commands	Full Set of AT Commands (including Voice Control)
Radio Fleet Management	Compatible with Motorola Integrated Terminal Management (iTM) solution

USER INTERFACE

Display	Large 2" QVGA with 262K vivid colours Backlight I Flip screen, large icons and scalable text font options Screen saver gif image & text (user defined) Universal time display
Multiple languages	
Keypad lock	
Talkgroup Management	User friendly, flexible, efficient, fast and efficient interface
Favourite Folders	Up to 3 (to store any favourite talkgroup)
Menu	Customisable to user needs Menu shortcuts Menu configuration
Contacts management	Cellular feature phone style (rapid search)
Multiple dialling methods	User selects how to dial
Fast, flexible call response	Private call response to a group call via One Touch Button
Vibrator and multiple ring tones	
Message manager	Cellular feature phone style (flexible)
Text message list	20
Intelligent keypad text input	
Status list	400 alias messages
Country/Network Code List	100
Scan lists	40 lists of 20 groups
Covert Mode	

MAIN VOICE SERVICES

Full Duplex	TMO	Private, PABX, PSTN, Emergency
Keypad lock	TMO	Private, Group, Emergency
Talkgroup Management	DMO	Private, Group, Emergency Inter-MNI, Gateway, Repeater
Dialling	Direct, Scroll, Speed, One touch button/key, Alpha Search, Call History Redial	
Emergency call (user customised)	Tactical	Emergency Group Call to ATTACHED talkgroup
	Non-Tactical	Emergency Group Call to DEDICATED talkgroup
	Individual	Emergency Call to PREDEFINED party (half/full duplex)
	HOT MIC	Allows user to talk without needing to press PTT (user enabled)
Status Message	DMO to TMO	Sent to dispatch console (user enabled) Enter DMO emergency (with/without gateway) or enter TMO emergency
Preemptive Priority Calls		
PTT Double Push		

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature °C	-30 to +60
Storage Temperature °C	-40 to +85
Humidity	ETSI 300 019-1-7 class 7.3E
Dust and Water Ingress Protection	IPx7 and IPx5 per IEC 60529
Shock, drop and vibration	ETSI 300-019 1-7 class 5M3

RECOMMENDED SERVICES

Service from the Start with Comprehensive Coverage**

**Availability may vary by country. Please check with your local Motorola representative for full details.

MOTOROLA