



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



PRODUCT SPEC SHEET
MTP6550 TETRA PORTABLE

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.

PRODUCT SPEC SHEET
MTP6550 TETRA PORTABLE

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 / 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, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2012 Motorola Solutions, Inc. All rights reserved. Specifications are subject to change without notice. All specifications shown are typical. MTP6550_SPECSHEET_EMEA_UK_J1163_(10/12)

