



CRITICAL COMMUNICATION SOLUTIONS

MTP6000 SERIES TETRA PORTABLES

Designed based on direct input from emergency service customers, the MTP6000 Series TETRA portables deliver the intuitive operation, reliability and uncompromising performance that is vital to mine site operations.

The MTP6000 Series of TETRA portables connect your mine workers with centralised asset data and job scheduling tools which significantly enhance their productivity. With integrated multimedia capabilities, MTP6000 radios provide you with a platform for capturing and sharing graphical information across the mine site. Designed for operation in high stress environments, MTP6000 radios offer unmatched usability and performance, ensuring that workers can focus on the job, not the technology.

DIGITAL MEDIA FIELD DATA CAPTURE

From enhanced intelligence gathering to efficient reporting, the multimedia capabilities of the MTP6000 radios create many possibilities for mine sites.

With an integrated high-resolution camera, the first of its kind in a TETRA radio, the MTP6750 makes it easy for mine workers to capture field data. The MTP6750 attaches meta-data to each image, enhancing investigative capabilities and enabling investigators to reconstruct the events that took place during a critical incident.

EFFICIENT DATA SHARING

Mine workers need access to critical information in the field. For efficient information sharing, MTP6000 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 MTP6000 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, such as a blast notification, can be pushed to the radio’s screen, helping to ensure that critical messages are received. Text messages can also be utilised in loud environments when voice communications are not an option.

REDEFINING SAFETY FOR THE MINING INDUSTRY

From intuitive mission critical design and industry-leading audio to unmatched coverage performance, MTP6000 radios have been engineered to deliver uncompromising performance. Rugged and reliable, you can be sure that these radios will stand up to the harshest conditions - and even continue to operate after submersion in water.

FEATURES



PRODUCT SPEC SHEET
MTP6000 SERIES TETRA PORTABLES

MTP6000 RADIO MODELS		
	MTP6750	MTP6550
Camera	5MP Auto Focus Built-in LED Flash	Not Applicable
Keypad	Automatic keypad backlight 4 direction navigation key 3 selection keys 4 x 3 keypad	Automatic keypad backlight 4 direction navigation key 3 selection keys 4 x 3 keypad
One Touch Buttons	Single button activation for multiple functions	Single button activation for multiple functions
Controls	Large PTT button with enhanced tactility Emergency Button Programmable multi-function rotary switch 2 programmable side keys	Large PTT button with enhanced tactility Emergency Button Programmable multi-function rotary switch 2 programmable side keys
Additional Storage	Micro SD card * (up to 32GB additional capacity)	Micro SD card * (up to 32GB additional capacity)
Battery Options	Standard battery: 1650 mAh High capacity battery: 2150 mAh	Standard battery: 1650 mAh High capacity battery: 2150 mAh
SIZE AND WEIGHT		
Height	132mm	132mm
Width	59mm	59mm
Depth	34mm (with standard battery)	34mm (with standard battery)
Weight (Weights refer to MTP6550 model) with standard battery	292g (with 80mm stubby antenna)	292g (with 80mm stubby antenna)
RF SPECIFICATIONS		
Frequency Bands	350-470 MHz	350-470 MHz
Transmitter RF Power	Class 3L (1.8W) & Class 4 (1W)	Class 3L (1.8W) & Class 4 (1W)
RF Power Level Accuracy	+/- 2 dB	+/- 2 dB
Adaptive Power Control	Per EN 300 392-2	Per EN 300 392-2
Receiver Class	A and B	A and B
Receiver Static Sensitivity	-114dBm (min); -116dBm (typical)	-114dBm (min); -116dBm (typical)
Receiver Dynamic Sensitivity	-105 dBm (min); -107 dBm (typical)	-105 dBm (min); -107 dBm (typical)
DMO REPEATER SERVICES		
ETSI type 1A DMO Repeater for channel efficient operation		
Repeats DMO voice 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)	-159 dBm (guaranteed) - 160 dBm (typical)
GPS Accuracy	<5m (probable at -130dBm)	<5m (probable at -130dBm)
Protocols	ETSI LIP Motorola LRRP	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 v2.1 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	TETRA Enhanced Data Service (TEDS) Multi-Slot Packet Data (MSPD) WAP Browser WAP Push Service Bluetooth v2.1 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.

* Future software release.

PRODUCT SPEC SHEET
MTP6000 SERIES TETRA PORTABLES

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	20

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	IP67 and IP65 per IEC 60529
Shock, drop and vibration	ETSI 300-019 1-7 class 5M3

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