

MOTOROLA CEP400

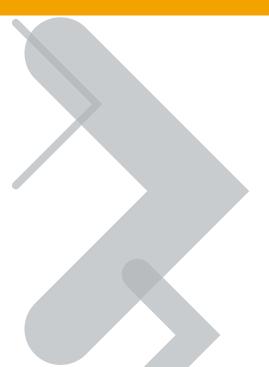
Portable TETRA Radio and Accessories



Heavyweight capabilities. Lightweight portability.

In demanding environments, an effective and reliable communications infrastructure is vital to ensuring the safety of the workforce and achieving service continuity. That's why business-critical users value the advanced features and capabilities offered by Motorola's CEP400 portable radio.

The CEP400 leverages advanced capabilities to deliver the reliable and robust communications platform required by oil and gas, utilities, hospitality, transportation and other commercial businesses.











Setting a new standard in performance

The CEP400 TETRA portable enables the high performance required for critical communications. This rugged yet lightweight radio delivers easy-to-use advanced features to ensure that employees in demanding workplaces stay safe, informed and productive.

Enhanced Personnel Safety

With its high quality audio, large emergency 'panic' button and built-in GPS, the CEP400 supports a wide range of sophisticated safety features:

- Hot 'Mic' activates the microphone so that surrounding audio is captured without having to press the PTT button. At the same time, the dispatcher is notified of the user's location.
- Ambience listening allows the microphone to be remotely activated so that audio is captured and the dispatcher's situational awareness increased.

Built to Last

The CEP400 provides uncompromising durability and has been made to the highest quality levels, exceeding all 11 categories in the stringent MIL-810 standard.

Superior Audio Quality

The CEP400 incorporates advanced noise reduction digital technology. This helps to accurately filter out background noise from the caller's voice. By virtually eliminating background noise, the need to repeat messages is minimised, increasing operational efficiency.

Longer battery life

Leveraging advanced power management technology, the CEP400's standard Li Ion battery provides more than 23 hours operational use (5/5/90 duty cycle) to meet the demands of a high performance workforce.

A customised solution for you

A full line of Motorola Original accessories including headsets, carry cases, antennas, batteries, charging systems and vehicular car kits are available to meet your specific business needs.

For enhanced investment security, all accessories are shared with the market proven MTP850 product.



D-Shell Earpiece
Ultra lightweight and stylish earpiece designed to ensure comfort needed when working long shifts.
In-line push-to-talk and microphone enhance ease of use



Leather Carry Cases
Constructed of top-grain leather to protect the radio from harsh working environments. Keeps the radio secure in high activity applications while allowing the radio to swing freely with body movements.



Instant Familiarity

To minimise training costs, the CEP400 incorporates a familiar cellular phone style user interface. It also includes a large colour display option that supports 65, 536 vivid colours and large scalable fonts. For fast and intuitive device interaction, the radio includes a customisable menu and programmable One Touch buttons.

Operational Resilience

The CEP400 allows users to leverage reliable TETRA networks for internal and external workgroup communications through its support for private, group, PABX and PSTN calls. This enables independence from public networks and improved operational resilience.



CEP400 Portable Radio Features

- 1) Programmable rotary knob for volume control and scrolling through to talkgroups
- (2) Easy to locate emergency button situated next to the base of the antenna
- (3) Loud speaker
- 4 Large, textured PTT button and programmable side keys
- (5) Patented helical GPS antenna integrated into TETRA antenna
- 6 130x130 pixels display with 65, 536 vivid colours
- 1 Loudspeaker button
- 8 Lower microphone activated during phone calls
- (9) Programmable arrow keys for fast access to key functions
- 10 Upper microphone used during group calls

Performance matched accessories with the quality you expect

Motorola accessories are performance matched to guarantee the same high standards of quality that you enjoy with your Motorola Tetra terminal. When you buy a Motorola accessory, you know the accessories are built and tested to meet the highest standards that you expect.



Dual Unit Charger

Rapid charging solution that allows you to quickly charge your radio along with a spare battery at the same time to ensure your radio is charged and ready to go when you are.



Digital Car Kit

For a seamless communications experience, Motorola's vehicle kits provide convenience and easy access to key portable functions while in a vehicle.

"We are confident that Motorola's TETRA system will enhance our operational effectiveness and enable us, in turn, to provide high standards of service and safety for our passengers"

Mr Siddharth D Patel, Construction Manager Rail Systems, West Rail, Kowloon-Canton Railway Corporation.



Ensuring Maximum Performance

Motorola has sold and supports more TETRA terminals in the field than any other manufacturer. With over 75 years experience of delivering mission critical and business critical solutions, Motorola has the expertise to ensure the optimal performance of your TETRA terminals.

To get the maximum benefit from your investment, Motorola provides a comprehensive suite of applications and terminal services.

Service Centre Excellence

With our proven same day repair capability, you can be sure your equipment is expertly repaired and back in your end users' hands quickly.

Technical Expertise

Get answers to your technical questions, reduce downtime and improve issue resolution times. Experienced technical support engineers work with you to diagnose and resolve hardware and software problems resulting in swift resolution of issues for your end users.

Customer Service

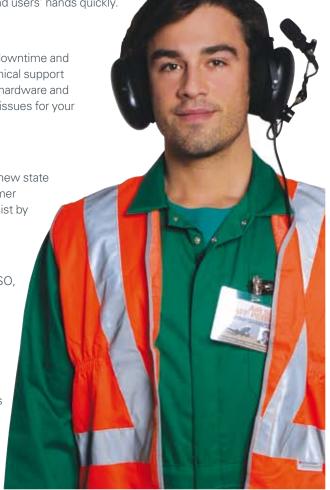
A single source for support delivered through our new state of the art call centre, available 24x7 to track customer issues and 8x5 for technical support. Ready to assist by telephone, e-mail or fax.

Certified solutions

All our services are fully certified to comply with ISO, ATEX / FM and CENELEC thereby providing the peace of mind that can only come from an experienced and trusted supplier.

Customised applications

To deliver highly tailored solutions for customers, we work with technology partners that are leaders in their field of expertise. Our solutions include personnel and vehicle tracking, video surveillance and a variety of tools for enhanced situational awareness.



Specifications

GENERAL		LOCATION SERVICES	
Dimensions HxWxD mm	125 x 50 x 37.5 (with standard battery)	Simultaneous Satellites	12
Weight g	170 (radio only)	GPS Antenna	Helical integrated into TETRA antenna
	240 (with standard battery)	Sensitivity	-152 dBm / -182 dBW
Battery Performance	Standard Li-Ion	Accuracy	5 meter (50% probable); 10 meter (95% probable)
mAh	1850	Protocols	ETSI LIP & Motorola LRRP
Duty Cycle (5/5/90) hours	> 23 hours		
Duty Cycle (5/35/60) hours	> 17 hours	USER INTERFACE	
Talk time hours 3.5 hours		Display	Colour (or Gray Scale) 130x130 pixels with 65, 536 vivid colours
RF SPECIFICATIONS			Backlight I Flip screen and scalable text font options
Frequency Bands (MHz)	380 - 430	Screen Saver	Gif image & text (user defined)
	806 - 870	Universal Time Display	
Switching Bandwidth TMO (MI	Hz) 50 (380-430)	Multiple Languages	
	19 (TX: 806-825, RX:851-870)	Keypad Lock	
Switching Bandwidth DMO (M	Hz) 50 (380-430)	Talkgroup Management	User friendly, flexible, fast and efficient interface
_	19 (851-870)	Talkgroups – TMO	2048
RF Channel Bandwidth (kHz)	25	Talkgroups – DMO	1024
Transmitter RF Power	1W	Talkgroup Folders	Dual layer folder structure (folder/sub-folder)
RF Power Control	3 Steps of 5 dB	. 3	256 folders
RF Power Level Accuracy	+/- 2 dB	Favourite Folders	Up to 3 (to store favourite talk groups)
Receiver Class	A&B	Menu	Customisable to user needs
Receiver Static Sensitivity (dBm		IVIETIU	Menu Shortcuts
Receiver Dynamic Sensitivity (dB)			Menu Configuration
neceiver Dynamic Sensitivity (c	-103 Hillillillilli, -107 typical	Contacts Management	Cellular phone style
ENVIRONMENTAL SPECIFICATIONS		Contacts List	Up to 1000 contacts
		Contacts List	
Operating Temperature °C -30 to +60		Multiple Dielline Method	Up to 6 numbers per contact, max. 2000 entries
Storage Temperature °C -40 to +85		Multiple Dialling Method	
Humidity ETS 300 019-1-7 class 7.3E		Fast/Flexible Call Respo	
Dust and Water Ingress Protection IP54 per IEC 60529			One Touch button
Shock, drop and vibration ETS 300-019 1-7 class 5M3		Alerting Modes	Vibrator and Multiple ringtones
OPTIONS		Message Manager	Cellular phone style
OPTIONS		Text Message Inbox	20 messages
GPS License		Intelligent Keypad Text i	
Local Language Options		Status List	100 alias messages
Colour and Greyscale Display Option		Country/Network Code	
		Scan lists	40 lists of 20 talkgroups
PERIPHERALS AND ACCESSORIES		User Controls	······································
Audio	Earpieces, headsets and remote speaker	Multi-function Rotary Kr	
	microphones	One Touch Buttons	Single button activation for multiple functions
Batteries	1850 mAh battery	Adaptive Audio Control	Selects best audio profile for a given environment
Carrying & In-Vehicle Solutions	Various carrying solutions and vehicle adapters	Authentication	Mutual
Antenna	Includes stub, whip options		
Remote Programming	Via Intelligent terminal management solution	VOICE SERVICES	
Herriote i rogiariiriiig	via intelligent terminarmanagement solution	Full Duplex	TMO Private, PABX, PSTN, Emergency
SECURITY SERVICES		Half Duplex	TMO Private, Group, Emergency
Authentication	Mutual	•••••	DMO Private, Group, Emergency Inter-MNI, Gateway, Repeater
DATA SERVICES		Dialling Direct, Scroll, Speed, One Touch button/key Call History Redial	
Short Data	STATUS messaging in TMO & DMO	Emergency and Safety	Tactical Emergency Group Call to ATTACHED talkgroup
	Short Data Service messaging in TMO & DMO	(User-defined)	Non-Tactical Emergency Group Call to DEDICATED talkgroup
	Short Data applications	10001 dollinod)	Individual Emergency Call to PREDEFINED party
AT Commands	Reduced set of AT commands	•••••	HOT MIC Talk without pressing PTT button
	(excludes voice control)		(user enabled)
		•••••	Status Message Message sent to dispatch console
			(user enabled)
			DMO to TMO Enter DMO emergency (with/without
			gateway) or enter TMO emergency
MOTOR	ROLA	Dro amptino Briarit : Call	
W W C I CHULA		Pre-emptive Priority Calls	



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