

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 lon 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 33.5 (v	with slim battery)	Simultaneous Satellites	12
DIFFICUSIONS FIXVVXD TIME		standard battery)	GPS Antenna	Helical integrated into TETRA antenna
Weight g	170	(radio only)	Sensitivity	-152 dBm /-182 dBW
vveigi it g	170 (radio only) 225 (with slim battery) 240 (with standard battery)			
			Accuracy	5 meter (50% probable); 10 meter (95% probable)
Date - Date -			Protocols	ETSI LIP & Motorola LRRP
Battery Performance	Slim Li Ion 950	Standard Li Ion	LIGER INTERES	
mAh	> 12.5	1850	USER INTERFACE	
Duty Cycle (5/5/90) hours			Display	Colour (or Gray Scale) 130x130 pixels with
Duty Cycle (5/35/60) hours				65, 536 vivid colours
Talk time hours	1.9	3.5 hours		Backlight I Flip screen and scalable text font options
DE OBEQUEIO ATIONIO			Screen Saver	Gif image & text (user defined)
RF SPECIFICATIONS			Universal Time Display	
Frequency Bands		380-430	Multiple Languages	
Transmitter RF Power		Class 4 (1W)	Keypad Lock	
RF Power Level Accuracy dB		2	Talkgroup Management	User friendly, flexible, fast and efficient interface
Adaptive Power Control	A and B		Talkgroups – TMO	2048
Receiver Class	A and B		Talkgroups – DMO	1024
Receiver Static Sensitivity	-112 dBm (-115 dBm typical)		Talkgroup Folders	Dual layer folder structure (folder/sub-folder)
Receiver Dynamic Sensitivity -103 dBm (-107 dBm typical)		•	256 folders	
			Favourite Folders	Up to 3 (to store favourite talk groups)
ENVIRONMENTAL SPECIFICAT	TIONS		Menu	Customisable to user needs
Operating Temperature °C		-30 to +60		Menu Shortcuts
Storage Temperature °C				Menu Configuration
Humidity	ETS 300.0	19-1-7 class 7.3E	Contacts Management	Cellular phone style
Dust and Water Ingress Protection IP54 per IEC 60529			Contacts List	Up to 1000 contacts
Shock, drop and vibration ETS 300-019 1-7 class 5M3			CONTROLO LICT	Up to 6 numbers per contact, max. 2000 entries
Shock, drop and vibration E13 300-013 1-7 class sivis		Multiple Dialling Method		
OPTIONS			Fast/Flexible Call Respo	
			r dogri lexible edil riespo	One Touch button
GPS License			Alerting Modes	Vibrator and Multiple ringtones
Local Language Options Colour and Greyscale Display Option			Message Manager	Cellular phone style
			Text Message Inbox	20 messages
			Intelligent Keypad Text input	
PERIPHERALS AND ACCESSO	RIES		Status List	100 alias messages
Audio	Earpieces, headsets and remote speaker		Country/Network Code	
	microphones		Scan lists	
Batteries	Range of 950 mAh and 1850 r	nAh batteries	User Controls	40 lists of 20 talkgroups
Carrying & In-Vehicle Solutions	Various carrying solutions and ve	hicle adapters	*****************************	
Antenna	Includes stub, whip options		Multi-function Rotary Kr	
Remote Programming	Via Intelligent terminal manager	ment solution	One Touch Buttons	Single button activation for multiple functions
			Adaptive Audio Control	Selects best audio profile for a given environment
SECURITY SERVICES			Authentication	Mutual
Authentication	Mutual		VOICE SERVICES	
-			Full Duplex	TMO Private, PABX, PSTN, Emergency
DATA SERVICES			Half Duplex	TMO Private, Group, Emergency
Short Data	STATUS messaging in TMO &	DMO	nali Duplex	DMO Private, Group, Emergency
	Short Data Service messaging			
	Short Data applications		D'all's a	Inter-MNI, Gateway, Repeater
AT Commands	Reduced set of AT commands		Dialling	Direct, Scroll, Speed, One Touch button/key
7 ii Goriii iidiida	(excludes voice control)	•	<u> </u>	Call History Redial
•••••	(excidues voice control)		Emergency and Safety	Tactical Emergency Group Call to ATTACHED talkgroup
			(User-defined)	Non-Tactical Emergency Group Call to DEDICATED talkgroup
			•••••	Individual Emergency Call to PREDEFINED party
				HOT MIC Talk without pressing PTT button
			••••	(user enabled)
				Status Message Message sent to dispatch console
			***************************************	(user enabled)
				DMO to TMO Enter DMO emergency (with/without
				gotoway or optor TMO amargang

Pre-emptive Priority Calls



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gateway) or enter TMO emergency