



Motorola CEP400 Digital Portable Radio

Heavyweight capabilities, lightweight portability



Key Benefits

High Performance, Built to Last

- Rugged and lightweight, designed for optimum reliability in harsh conditions
- Superior audio quality for the most demanding environments
- Comprehensive range of accessories to provide a tailored solution
- Cellular phone style, optimised user interface
- Remote programming facility for cost effective radio terminal management
- Large high resolution colour (or grey scale) display

Unified Communications, Integrated Safety

- Trunked and conventional operation modes
- Full duplex PABX and PSTN interconnection
- Personnel safety and emergency call features
- Optional integrated GPS for personnel tracking

Motorola's CEP400 TETRA portable delivers the high performance and dependability required for enhanced workforce productivity and assured user safety.

Leveraging the best features of a two-way radio and a cellular phone, the lightweight and robust CEP400 has been engineered to ensure loud and clear communications even in high noise work environments.

Built to Last

CEP400 has been made to the highest quality levels and exceeds all 11 categories in the MIL-810 standard. Further, like all Motorola TETRA radios, CEP400 has been designed to pass an Accelerated Life Test simulating over 5 years use; these tests ensure it will stand up to the toughest conditions and provide durability that helps to drive down lifecycle support

One Device for all Critical Communications

CEP400 takes advantage of all the benefits of TETRA digital technology to drive workforce productivity and safety. These include exceptional audio quality with full duplex voice services, PABX and PSTN interconnection, individual and group calls, priority and emergency calls, Short Data Services and Localisation Services.

CEP400 also benefits from the inherent protection of TETRA digital signaling. Coupled with the Mutual Authentication feature, CEP400 provides a secure communications platform.

Simple but Powerful User Interface

To minimise staff training costs, CEP400 leverages an instantly familiar cellular phone style user interface. It also includes a large colour (or greyscale) display that supports 65,536 vivid colours and large scalable fonts. Usability is further enhanced through a customisable menu and simplified keypad that combine to make device interaction fast and intuitive.

Cost Efficient Terminal Solution

CEP400 is complemented by a complete terminal solutions portfolio designed for efficient operations:

- Remote programming to ensure cost effective rollout of new services and simplified radio management
- CEP400 leverages the same wide range of accessories as the flagship MTP850 radio to increase investment security. This range includes audio, power, carry and invehicle solutions







SPECIFICATIONS SPEC SHEET CEP400

General			
Dimensions HxWxD mm	125 x 50 x 37.5	(with standard battery)	
Weight g	170	(radio only)	
	240	(with standard battery)	
Battery Performance		Standard Li-Ion	
mAh		1850	
Duty Cycle (5/5/90) hours	••••••	> 23 hours	
Duty Cycle (5/35/60) hours	••••••	> 17 hours	
Talk time hours		3.5 hours	
RF Specifications			
Frequency Bands (MHz)	380 – 430		
Troquonoy Bundo (IVII IZ)	806 – 870		
Switching Bandwidth TMO (MHz)	50 (380-430)		
SWITCHING Dandwidth TIVIO (IVII 12)	19 (TX: 806-825, R	V-0E1 070\	
Contaction Department DNAO (NALL)	50 (380-430)	A.001-07U)	
Switching Bandwidth DMO (MHz)			
DE OL TRANSPORTE	19 (851-870)		
RF Channel Bandwidth (kHz)	25		
Transmitter RF Power	1W		
RF Power Control	3 Steps of 5 dB		
RF Power Level Accuracy	+/- 2 dB		
Receiver Class	A & B		
Receiver Static Sensitivity (dBm)	-112 minimum, -115 typical		
Receiver Dynamic Sensitivity (dBm)	-103 minimum, -10		
Environmental Specifications			
Operating Temperature °C	-30 to +60		
Storage Temperature °C	-40 to +85		
Humidity	ETS 300 019-1-7 class 7.3E		
Dust and Water Ingress Protection	IP54 per IEC 60529		
Shock, drop and vibration	ETS 300-019 1-7 class 5M3		
Options			
GPS License			
Local Language Options	***************************************		
Colour and Greyscale Display Option			
Peripherals and Accessories			
Audio	Famieces headsets	and remote speaker microphones	
Batteries	1850 mAh battery		
Carrying and	Various carning colu	itions and vehicle adapters	
In-Vehicle Solutions	various carrying soit	ations and verticle adapters	
Antenna	Includes stub, whip	ontions	
		nal management solution	
Remote Programming	via iritelligerit terrili	iai management solution	
Security Services			
Authentication	Mutual		
Data Services			
Short Data	STATUS messaging	in TMO & DMO	
••••••	Short Data Service messaging in TMO & DMO		
••••••	Short Data applications		
AT Commands	Reduced set of AT commands (excludes voice control)		
Lacation Commissor			
Location Services	10		
Simultaneous Satellites		12	
GPS Antenna	Helical integrated into TETRA antenna		
Sensitivity	-152 dBm / -182 dBW		
Accuracy		able); 10 meter (95% probable)	
Protocole	ETSLLIP & Motorola LBBP		

User Interface			
Display	Colour (or Gray Scale) 130x130 pixels		
	with 65,536 vivid colours		
	Backlight I Flip screen and scalable		
***************************************	text font option	IS.	
Screen Saver	Gif image & text) (user defined)		
Universal Time			
Display			
Multiple Languages			
Keypad Lock		···· <u>·</u> ·····	
Talkgroup	User friendly, fl		
Management	and efficient interface		
Talkgroups – TMO	2048		
Talkgroups – DMO	1024	er structure (folder/sub-folder)	
Talkgroup Folders	256 folders		
Favourite Folders	Up to 3 (to stor	e favourite talk groups)	
Menu	Customisable to user needs		
	Menu Shortcuts		
	Menu Configuration		
Contacts	Cellular phone :	style	
Management			
Contacts List	Up to 1000 con	rs per contact,	
	max. 2000 entr	ies	
Multiple Dialling	User defined	•••••	
Methods	Supports Virtua	l Keypad	
Fast/Flexible Call	Private Call Res	sponse to a Group Call via	
Response	One Touch hutt	······	
Alartina Madaa	One Touch butt	Ultiple ringtonee	
Alerting Modes Message Manager	Collular phone	ultiple ringtones	
Text Message Inbox	20 massages	style	
Intelligent Keypad Te	vt input		
Status List		2006	
Country/Network	100 alias mess	ages	
Code List			
Scan lists	40 lists of 20 ta	llkgroups	
User Controls			
Multi-function	Volume, Talkgro	oup scroll and/or selection	
Rotary Knob			
One Touch Buttons	Single button a	ctivation for	
	multiple function		
Adaptive Audio	Selects best au	idio profile for	
Control	a given environ	ment	
Voice Services			
Full Duplex	TMO	Private, PABX, PSTN,	
- 1	-	Emergency	
Half Duplex	TMO	Private, Group, Emergency	
***************************************	DMO	Private, Group, Emergency	
•••••		Inter-MNI, Gateway, Repeater	
Dialling	• • • • • • • • • • • • • • • • • • • •	Direct, Scroll, Speed,	
•		One Touch button/key	
		Call History Redial	
Emorgonov	Tactical	Emorgonov Group Call to	

For more information please contact your local Motorola Authorised Dealer or Distributor

Pre-emptive Priority Calls

Emergency Tactical

Non-

Tactical

Individual

HOT MIC

DMO to TMO

Status Message

and Safety (User-defined)



CEP400_Specsheet_UK(12/09)

ETSI LIP & Motorola LRRP

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Call History Redial
Emergency Group Call to
ATTACHED talkgroup
Emergency Group Call to

DEDICATED talkgroup

Emergency Call to

PREDEFINED party Talk without pressing PTT

button (user enabled) Message sent to dispatch console (user enabled)

Enter DMO emergency

(with/without gateway) or enter TMO emergency

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