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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	
rioqueriey Buriae (ivii iz)	806 – 870	
Switching Bandwidth TMO (MHz)	50 (380-430)	
Switching Bandwidth TiviO (ivii 12)		V-0E1 070\
	19 (TX: 806-825, R)	X:851-87U)
Switching Bandwidth DMO (MHz)	50 (380-430)	
	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, -11	5 typical
Receiver Dynamic Sensitivity (dBm)	-103 minimum, -10	7 typical
Environmental Specifications		
Operating Temperature °C	-30 to +60	
Storage Temperature °C	-40 to +85	
		705
Humidity	ETS 300 019-1-7 class 7.3E	
Dust and Water Ingress Protection Shock, drop and vibration	IP54 per IEC 60529 ETS 300-019 1-7 class 5M3	
Options		
GPS License		
Local Language Options		
Colour and Greyscale Display Option		
Peripherals and Accessories		
Audio	Farniaces hoodsots	and remote speaker microphones
		and remote speaker microphones
Batteries	1850 mAh battery Various carrying solutions and vehicle adapters	
Carrying and	various carrying solu	tions and venicle adapters
In-Vehicle Solutions		
Antenna	Includes stub, whip	options
Remote Programming	Via Intelligent termin	al management solution
Security Services		
Authentication	Mutual	
Data Services	CTATLIC	in TMAC 8, DMAC
Short Data	STATUS messaging	
•••••		nessaging in TMO & DMO
	Short Data application	
AT Commands	Reduced set of AT c	ommands (excludes voice control)
Location Services		
	10	
Simultaneous Satellites		
GPS Antenna	Helical integrated int	
Sensitivity	-152 dBm / -182 dBV	N
Accuracy	5 meter (50% proba	ble); 10 meter (95% probable)
Protocols	ETSI LIP & Motorola	
• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •

User Interface	Calaur lar Crau	Coole) 120v120 pivole	
Display		Scale) 130x130 pixels	
•••••	with 65,536 vivid colours Backlight I Flip screen and scalable		
	toxt font ontion	C	
Screen Saver	Gif image & tex	t) (user defined)	
Universal Time		(400) 40111047	
Display			
Multiple Languages	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••	
Keypad Lock	• • • • • • • • • • • • • • • • • • • •		
Talkgroup	User friendly, fl	exible, fast	
Management	and efficient interface 2048		
Talkgroups – TMO Talkgroups – DMO	1024		
Talkgroup Folders	Dual layer folder structure (folder/sub-folder)		
	256 folders		
Favourite Folders	Up to 3 (to store favourite talk groups)		
Menu	Customisable to user needs		
	Menu Shortcut	S	
	Menu Configuration		
Contacts	Cellular phone s	style	
Management			
Contacts List	Up to 1000 con	tacts	
	Up to 6 number	rs per contact,	
Multiple Dialling	max. 2000 entr	les	
Methods	User defined		
Fast/Flexible Call	Supports Virtual Keypad Private Call Response to a Group Call via		
Response	Tilvato Gail Hoc	poriso to a Group Can via	
	One Touch butt	on	
Alerting Modes	Vibrator and Mu		
Message Manager	Cellular phone style		
Text Message Inbox	20 messages	••••••	
Intelligent Keypad Te	ext input		
Status List	100 alias messa	ages	
Country/Network	100		
Code List			
Scan lists	40 lists of 20 talkgroups		
User Controls	\/alumas T-U:	oup scroll and/or selection	
Multi-function	volume, laikgro	oup scroll and/or selection	
Rotary Knob One Touch Buttons	Single button a	ati atian far	
One louch bullons	multiple function		
Adaptive Audio	Selects best au		
Control	a given environment		
	a givoii oiivii oii		
Value Camatas			
Voice Services Full Duplex	TMO	Private, PABX, PSTN,	
i uli Duplex	IVIO	Emergency	
Half Duplex	TMO	Private, Group, Emergency	
aii Dupiox	DMO	Private, Group, Emergency	
•••••		Inter-MNI, Gateway, Repeater	
Dialling		Direct, Scroll, Speed,	
-		One Touch button/key	

Full Duplex	TIMO	Private, PABX, PSTN,	
		Emergency	
Half Duplex	TMO	Private, Group, Emergency	
	DMO	Private, Group, Emergency	
•••••	DIVIO		
6		Inter-MNI, Gateway, Repeater	
Dialling		Direct, Scroll, Speed,	
		One Touch button/key	
		Call History Redial	
Emergency	Tactical	Emergency Group Call to	
and Safety		ATTACHED talkgroup	
(User-defined)	Non-	Emergency Group Call to	
(Tactical	DEDICATED talkgroup	
•••••	Individual	Emergency Call to	
	murviduai		
		PREDEFINED party	
	HOT MIC	Talk without pressing PTT	
		button (user enabled)	
	Status	Message sent to dispatch	
	Message	console (user enabled)	
***************************************	DMO to TMO	Enter DMO emergency	
		(with/without gateway) or	
		enter TMO emergency	
Dra apantina Driavit	. Calla	enter Tivio emergency	
Pre-emptive Priority Calls			

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



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