PRODUCT DATA SHEET
MOTOTRBO™ DP3441e
DIGITAL TWO-WAY RADIO

MOTOTRBO™ DP3441e

YOU'RE READY FOR ANYTHING

With this dynamic evolution of MOTOTRBO digital two-way radios, you're more agile, better connected and safer. The DP3441e is designed for the mobile professional who needs effective communications. With a compact design and high performance integrated voice and data, these next-generation radios deliver comprehensive connectivity to your organisation.

AGILE
The MOTOTRBO DP3441e is a tough and compact ETSI DMR Standards compliant digital radio. Its small form factor makes it conveniently portable, with an efficient short antenna that won't get in your way. It's tested to military standards for extreme ruggedness, and is rated IP68 for almost complete immunity to dust and water. It won't let you down even in harsh environments.

CONNECTED
The DP3441e delivers operations-critical voice and data communications. Bluetooth® audio lets you talk without wires, integrated Wi-Fi® enables remote software updates, and indoor and outdoor location-tracking capabilities give you total visibility of your resources. With support for trunking as well as legacy analogue technology, you can keep your organisation connected as it grows.

SAFE
Safeguard your staff with responsive push-to-talk technology. The prominent orange emergency button on the DP3441e summons help with one touch, using Transmit Interrupt to clear a channel when necessary. An integrated accelerometer senses if you've fallen, and can initiate a call for assistance.

WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated accelerometer for optional Man Down feature
- Bluetooth® 4.0
- Indoor location tracking
- Multi-constellation GNSS for increased location accuracy
- Integrated Wi-Fi
- Over-the-air software updates
- Enhanced audio quality
- Improved expandability
- Better range (up to 8%)
- Better waterproofing (IP68)

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Model Number	DP3441e	
Band	VHF	UHF
GENERAL SPECIFICATIONS		
Frequency	136-174 MHz	403-527 MHz
High Power Output	5 W	4 W
Low Power Output	1 W	1 W
Channel Spacing	12.5, 20, 25 kHz	
Channel Capacity	32	
Dimensions (H x W x D), Radio + 1600mAh Li-ion Battery	100 x 56 x 30 mm	
Weight, Radio + 1600mAh Li-ion Battery	254 g	
Digital / Analogue Battery Life[1]	16.0 / 12.0	
Power Supply (Nominal)	7.5 V	

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TRANSMITTER SPECIFICATIONS	
Channel Spacing	12.5, 20, 25 kHz
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Protocol	ETSI TS 102 361-1, -2, -3
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1GHz, -30 dBm > 1GHz
Adjacent Channel Power	60dB (12.5 kHz) 70dB (20 / 25 kHz)
Frequency Stability	± 0.5 ppm
RECEIVER SPECIFICATIONS	
Analogue Sensitivity (12dB SINAD)	0.16 uV
Digital Sensitivity (5% BER)	0.14 uV
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity, (TIA603A)-1T	60 dB (12.5 kHz) 70 dB (20 / 25 kHz)
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz) 70 dB (20 / 25 kHz)
Spurious Rejection (TIA603D)	70 dB
AUDIO SPECIFICATIONS	
Digital Vocoder Type	AMBE+2™
Audio Response	TIA603D
Rated Audio	0.5 W
Audio Distortion at Rated Audio	3%
Hum and Noise	-40 dB (12.5 kHz) -45 dB (20 / 25 kHz)
Conducted Spurious Emissions (TIA603D)	-57 dBm

BLUETOOTH SPECIFICATIONS	
Version	4.0
Range	Class 2, 10 m
Supported Profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Simultaneous Connections	1 x audio accessory and 1 x data device
Permanent Discoverable Mode	Optional
GNSS SPECIFICATIONS	
Constellation Support	GPS, GLONASS
Time To First Fix, Cold Start	< 60 s
Time To First Fix, Hot Start	< 10 s
Horizontal Accuracy	< 5 m
Wi-Fi SPECIFICATIONS	
Standards Supported	IEEE 802.11b, 802.11g, 802.11n
Security Protocol Supported	WPA, WPA-2, WEP
Maximum Number of SSIDs	64
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature[2]	-30 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Electrostatic Discharge	IEC 61000-4-2 Level 4
Dust and Water Intrusion	IEC 60529 - IP68, 2 m for 2 hrs
Packaging Test	MIL-STD 810D and E

NOTES
1: Typical battery life, 5/5/90 profile at maximum transmitter power with GNSS, Bluetooth, Wi-Fi and Option Board applications disabled. Actual observed runtimes may vary.
2: Radio only. Battery operation down to -10 °C only.

MILITARY STANDARDS

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temp	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A1
Low Temp	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temp Shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I/Hot-Dry	505.3	I/Hot-Dry	505.4	I/Hot-Dry	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II/Hot-Humid	507.3	II/Hot-Humid	507.4	-	507.5	II/Hot-Humid
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-	509.5	-
Dust	510.1	I, II	510.2	I, II	510.3	I, II	510.4	I, II	510.5	I, II
Vibration	514.2	VIII/F, W, XI	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24, II/5	514.6	I/24, II/5
Shock	516.2	II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV

CONNECTION
- ● VHF Band, 5 W
- ● UHF Band, 4 W
- ● 32 Channels
- ● Analogue and Digital
- ● Voice and Data
- ○ Integrated Wi-Fi
- ● Canned Text Messaging
- ● Multi-constellation GNSS
- ● High Efficiency GNSS
- ● Event-Driven Location Update
- ● Bluetooth Audio
- ● Bluetooth Data
- ○ Bluetooth Permanent Discoverable Mode
- ○ Bluetooth Indoor Location Tracking
- ● Voice Announcement
- ○ Text to Speech
- ○ Option Board
- ● Home Channel Reminder

AUDIO
- ● Intelligent Audio
- ● IMPRES Audio
- ○ SINC+ Noise Cancellation
- ● Acoustic Feedback Suppressor
- ● User-Selectable Audio Profiles
- ● Switch Speaker
- ● Trill Enhancement

PERSONALISATION
- ● Wide Range of Accessories
- ● 2 Programmable Buttons
- ● Emergency Button

MANAGEMENT
- ● Radio Management
- ● Over-the-Air Programming
- ○ Over-the-Air Software Update

SAFETY
- ● Integrated Accelerometer
- ○ Man Down
- ● Lone Worker
- ● Basic Privacy
- ● Enhanced Privacy
- ○ AES256 Encryption
- ● Transmit Interrupt (decode)
- ● Transmit Interrupt (encode)
- ● Emergency
- ● Emergency Search Tone
- ● Remote Monitor
- ● Radio Disable / Enable
- ● Waterproof to IP68
- ● Rugged to MIL-STD 810

SYSTEMS
- ● Direct Mode (including Dual Capacity Direct Mode)
- ● IP Site Connect (Single and Multi-Site)
- ● Capacity Plus (Single and Multi-Site)
- ○ Capacity Max

● Standard feature
○ Optional feature

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BLUETOOTH

Connect to your radio without wires, for extra comfort and safety. A full portfolio of Bluetooth headsets and earpieces is available.

REMOTE SPEAKER MICROPHONE

Improve usability with a Remote Speaker Microphone (RSM). Choose from standard, heavy duty and noise-cancelling models, with or without secondary earpiece connector.

ENERGY SOLUTIONS

Make sure your radio is powered and charged properly, with our range of energy solutions. Includes custom insert for IMPRES chargers.

EARPIECES

For all-day comfort, choose from our range of earpieces. Lightweight or heavy duty, discreet or rugged, with or without built-in hearing protection.

COVERT ACCESSORIES

When you need to stay in touch discreetly, choose from our range of covert audio accessories. From clear tube earpieces to virtually invisible wireless in-ear units.

HEADSETS

In a noisy workplace, you need to protect your workers' hearing. Whether it's heavy duty noise reduction or innovative temple transducer technology, our headsets can help.

To get connected with MOTOTRBO, visit www.motorolasolutions.com/mototrbo or find your closest Motorola representative or authorised Partner at www.motorolasolutions.com/contactus

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