Business Critical Communications



DTEx Series Intrinsically Safe Commercial-Grade Land portables (🕱) Commercial-grade construction ATEX II 2G Ex ib IIA T4 Gb (Ex) ATEX II 2G Ex ib IIC T4 Gb (IECEx Ex ib IIA T4 Gb (1) DMR Digital & analogue modes **0** Submersible IP68 Ing Toul Tough CRYSTAL CLEAR AUDIO Zone 01 MAIN CHANNEL Maintenance Grp **Submersible** Dependable

entel.co.uk/dtex-land

DTEx Series

Intrinsically Safe Commercial-Grade Land portables

The ultra-durable DTEx series is the latest addition to our range of Intrinsically Safe radios. The rugged DTEx delivers exceptionally loud audio coupled with outstanding audio clarity, plus the ergonomic controls are specifically designed for gloved hand use.

Combining the latest DMR digital technology, emergency features and the highest ATEX gas group ratings^{*}, the DTEx series delivers best-in-class range, safety and reliability. Exceeding MIL-STD-810 and a market-leading IP68 rating (2 metres 4 hours) the fully submersible DTEx can be depended on to withstand the most extreme and hostile environments.

Customisable Configuration

The fully featured and versatile DTEx radios can be configured for basic push-to-talk (PTT) operation or the more advanced features that you would expect of a high-tier two-way radio. The high-contrast OLED screen can be customised to display simple large-character or more detailed information.

Superior Audio

Our DTEx portables deliver loud and crisp audio, no matter what operational environment you are in. The full DTEx accessory range incorporates a robust locking plug and high-grade cable, whilst intelligent speech tailoring technology automatically detects the type of accessory connected and optimises the audio accordingly to deliver the very best performance.

Safety Features You Can Rely On

DTEx radios support digital Lone-Worker, Man-Down and Emergency Button, these three levels of safety ensure an alarm is raised.

IP68 2 Metres, 4 Hours Submersible

The DTEx Series delivers the highest submersibility rating of any manufacturer. Ensuring protection against corrosion and likely hazards encountered in the most arduous of environments, these radios are constructed to withstand total immersion in water to a depth of 2 metres for 4 hours.

*Intrinsically Safe

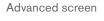
ATEX Approved IIC - The DT900 series of ATEX-certified portables meet IIC T4 - the most stringent ATEX ratings as per EU Directive 2014/34/EU. **ATEX Approved IIA** - For users not restricted to the IIC 1 watt regulatory classification, the DT800 series of ATEX certified portables meet IIA T4 with 4 watts of transmitter power.

IECEx Approval - The DT500 series of Intrinsically Safe certified portables are suitable for users outside Europe who do not need to comply with the European ATEX standard.



Basic screen







Non-display model

Display model





Migrate To Digital Your Way

DTEx radios utilise both analogue and DMR digital technologies. Supporting both technologies ensures backwards compatibility with existing analogue radio systems and a simple migration path to the many benefits of digital communications.

Voice annunciation

This programmable feature is available on our non-display models only. It assures the user that they've selected the correct channel, allowing them to focus on the task at hand. This feature also gives a confirmation of button settings, e.g. 'Keylock On', 'Keylock Off', battery level status and warns user when the battery is low.

Intelligent Batteries, Audio Accessories & BA Support

Entel's intelligent batteries and accessories are designed to deliver optimum performance and safety. In digital mode, the lithium-ion battery endurance on DT900 radios is more than 18 hours from a single charge!

From simple earpieces to bone conductive options for extremely high noise environments, we offer a vast range of Entel-original audio accessories. In addition, third-party Breathing Apparatus comms kits are also supported.

Entel's intelligent speech tailoring technology optimises audio to match the connected accessory; ensuring the very best clarity, volume and naturalsounding audio.

Simple End-User Programming

Our unique and simple-to-use PC app is included free of charge with the purchase of your DTEx radio. There is no longer any need to return a handset to your dealer to reprogram or update. With the user-friendly app, you can simply transfer the programming data sent to you by your Entel dealer, future-proofing software updates or add new features to your DTEx radios.

High-Grade Accessory Interface

The rugged, multi-pin interface and Micro-USB socket are both submersible and gold-plated to minimise any risk of damage and protect against corrosion.

To ensure the integrity of intrinsically safe protection levels and safeguard against non-compliant accessories being used, any accessory connected to the handset automatically undergoes a validation process.

All DTEx accessories incorporate a robust locking connector to further safeguard the user.



Model List

Model	Approval	Channels	EU/Non EU	Screen	RFPower	Frequency	Tier
DT522	IECEx IIA	16	Non EU	None	4W	VHF	Ш
DT525	IECEx IIA	99	Non EU	OLED	4W	VHF	11
DT582	IECEx IIA	16	Non EU	None	4W	UHF	
DT585	IECEx IIA	99	Non EU	OLED	4W	UHF	
DT822	ATEX IIA	16	EU	None	4W	VHF	Ш
DT825	ATEX IIA	99	EU	OLED	4W	VHF	
DT882	ATEX IIA	16	EU	None	4W	UHF	11
DT885	ATEX IIA	99	EU	OLED	4W	UHF	
DT922	ATEX IIC	16	EU	None	1W	VHF	11
DT925	ATEX IIC	99	EU	OLED	1W	VHF	
DT982	ATEX IIC	16	EU	None	1W	UHF	11
DT985	ATEX IIC	99	EU	OLED	1W	UHF	11
DT952	ATEX IIC	16	EU	None	0.5W	PMR/DMR446	I
DT953	ATEX IIC	99	EU	OLED	0.5W	PMR/DMR446	I

Key Features

- ✓ Commercial grade construction
- ✓IP68 submersible
- ✓ Digital & analogue modes
- ✓ Outstanding range and performance
- ✓ Crystal clear audio

- High contrast white on black OLED
- ✓ Simple end-user programming app
- ✓ Extensive range of approved accessories
- ✓ Supports 3rd party BA kit
- Audio accessory optimisation

Technical Specification

General				
Vocoder	AMBE+2™			
Battery	DT800/DT900 CNB950EV2 1800mAh Lithium-Ion DT500 CNB550EV2 1800mAh Lithium-Ion			
Weight	435g			
Overall Dimensions (HxWxD)	138mm x 60mm x 38mm (with CNB950EV2)			
Frequency Stability	±0.5ppm			
Frequency Range	VHF 136-174 MHz UHF 400-470 MHz UHF UP-BAND 450-520 MHz PMR446 446-446.2 MHz			
Number of Channels	16 (non-display) / 99 (display)			
Number of Zones	8 (display)			
Channel Spacing	12.5 & 25KHz			
Operating Voltage	7.4v			
Programmable Buttons	3 (non-display) / 5 (display)			
Battery Endurance (5/5/90) *non display models have improved duty cycle of 15%	DT925 1 DT825/525 1	6 hours	Digital mode 18 hours 15 hours 18 hours 15 hours	
		6 hours	18 hours	
Transmitter				
Output Power	ATEX IIC1 Watt (100mW versions available)ATEX/IECEX IIA4 Watts (high) / 1 Watt (low)PMR4460.5 Watt			
Modulation Limiting	±5.0KHz / ±2.5KHz			
Unwanted Emissions	-57dBm up to 1GHz, -47dBm from 1GHz to 4GHz			
Adjacent Channel Power	-60dBc			
Audio Distortion	<5%			

Receiver					
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER				
Intermodulation Response	>65dB				
Adjacent Channel Selectivity	>70dB/>60dB				
Spurious Rejection	>70dB				
Rated Audio Power	2 Watts				
Audio Distortion	<5%				
Conducted Spurious Emissions	-57dBm up to 1GHz, -47dBm from 1GHz to 4GHz				
Environmental					
Operating Temperature	-20°C to +55°C				
Storage Temperature	-40°C to +85°C				
Thermal Shock					
Humidity					
Shock & Vibration	Compliant MIL-STD-810 C/D/E/F/G				
Packing Test					
Drop Test					
Dust & Liquid Ingress	IP68 (2m 4h Submersible)				
Approvals	EN 300 086 v2.1.2 EN 300 113 v2.2.1 EN 301 489-1 v2.2.3 & EN 301 489-5 v2.2.1 EN 62368-1:2020 + A11:2020 EN 50566:2017, EN 62311:2008 & EN 62209 – 2:2010 EN 300 296 v2.1.1				
Ex Protection	ATEX II 2G Ex ib IIA T4 Gb ATEX II 2G Ex ib IIC T4 Gb Ex ib IIA T4 Gb				

Accessories

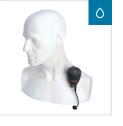
Supplied package includes: Li-ion battery pack, drop-in charger, belt clip, high-efficiency antenna and quick-start user guide.



CSBHT Intelligent six-pod rapid charger



CXR5/DT9 Bone conductive skull mic with in-line PTT



CMP/DT9 Heavy-duty speaker microphone for DT900 and DT800 series CMP/DT5 for DT500 series



CXR16/DT9 Throat mic/headset with heavy-duty PTT



CLCDT2 – non-display CLCDT5 – display A heavy-duty leather carry case with swivel belt loop and strap



3rd Party BA Supports 3rd party BA comms kits



CHPHS/DT9* Single-sided ear defender headset for hard hat use

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CHPD/DT9* Double-sided ear defender headset with headband



For the complete range of accessories please visit our website. All specifications are subject to change without notice.

* Submersible - PTT only

Full list of accessories available online.

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Designed in the United Kingdom

Contact

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