

Business  
Critical  
Communications

Entel

# DTE<sub>x</sub> Series

Intrinsically Safe, Commercial Marine Portables

EN60945 Marine Approval

ATEX II 2G Ex ib IIB T4 Gb  
ATEX II 2G Ex ib IIC T4 Gb

DMR Digital & Analogue mode

Submersible IP68



Tough | CRYSTAL  
CLEAR  
AUDIO  
Submersible  
Dependable



# DTE<sub>x</sub> Series

## Intrinsically Safe, Commercial Marine Portables

Available in either VHF or UHF, display and non-display models, the industrial grade DTE<sub>x</sub> Series sets the benchmark for next-generation onboard intrinsically safe portables.

Standard features include both analogue and digital\* modes of operation, high visibility OLED display, high torque ergonomic controls designed for gloved-hand use, and industry-leading IP68 2m 4 hours submersible rating, to provide 100% reliability and usability even in the most extreme conditions.

### Loudest & Clearest audio – in class

Using the latest noise reduction technology, our DTE<sub>x</sub> portables deliver loud and intelligible audio, essential when working in high ambient noise environments.

### IP68 2 Metres, 4 Hours Submersible

The DTE<sub>x</sub> Series delivers a class leading IP68 2 metres for 4 hours submersible rating, the highest IP rating of any manufacturer. This ensures protection against corrosion and likely hazards encountered in life at sea.

### Intrinsically Safe Approved

**ATEX Approved IIC** - The DT900 Series of ATEX certified portables meet IIC gas group, the most stringent ATEX rating as per EU Directive 94/9/EC.

**ATEX Approved IIB** - The DT800 Series of ATEX certified portables meet IIB gas group.

**IECEX Approval IIB** - The DT500 range of intrinsically safe certified portables are suitable for those users who do not need to comply with the European ATEX standard.

### Industrial grade construction

Every aspect of the DTE<sub>x</sub> radios industrial grade design has been meticulously considered, from the high contrast OLED display, readable in all light conditions to the high torque controls to the ultra-tactile front buttons that ensures reliable operation even when using gloved hands.

### Voice annunciation

This programmable feature gives further assurance to the user that they've selected the correct channel allowing them to focus on the task in hand.

### Benefits of Digital

Aside from crystal clear intelligible audio, there is increased range and battery endurance. DTE<sub>x</sub> also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

\*Digital mode only available on UHF models

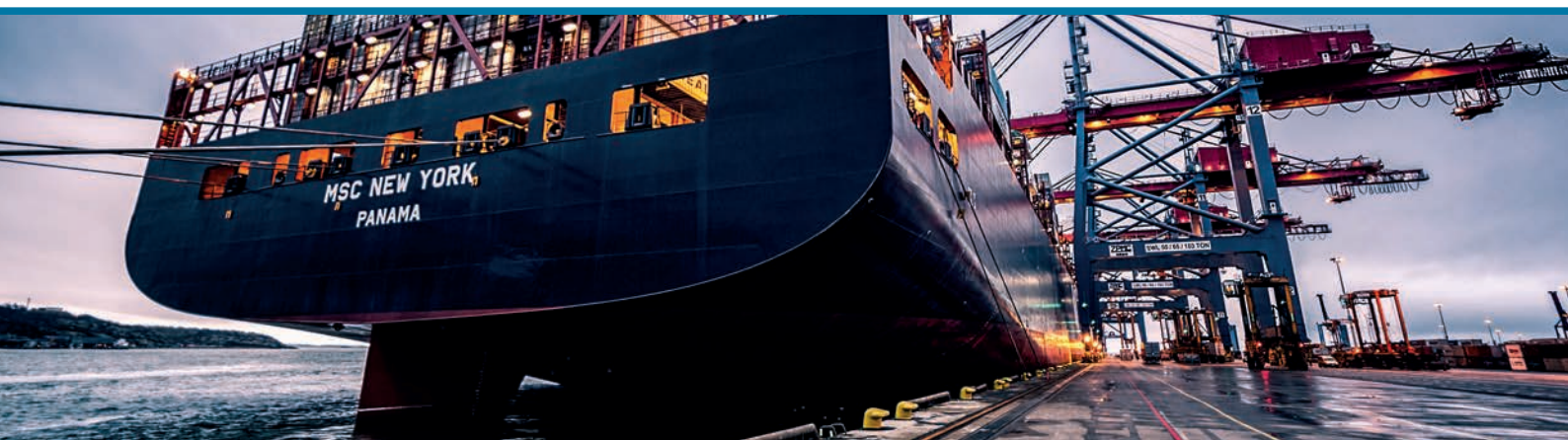


Informative display shows both the channel number and the frequency



Non display model

Display model



## Migrate to Digital Your Way

DTE<sub>x</sub> UHF radios support both analogue and 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.

## Intelligent Batteries

Entel's intelligent Lithium-Ion batteries are designed to deliver optimum performance and safety. In digital mode the duty cycle of the DT900 radios is more than 17.5 hours from a single charge!

## Versatile range of accessories

From headsets to speaker microphones and advanced bone conduction technology, Entel offer a complete portfolio of accessories to ensure you stay connected.

## Simple Onboard Reprogramming App

With our free, unique and simple to use PC app, you can easily re-program a DTE<sub>x</sub> radios whilst still onboard.

The user friendly app makes it easy to drag and drop a new programming file from an email to your DTE<sub>x</sub> radio(s).

This is a simple and seamless process that can be carried out by non-technical personnel.

## 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 IS protection levels and safeguard against non-compliant accessories being used, any accessory connected to the handset automatically undergoes a validation process.

All DTE<sub>x</sub> accessories incorporate a robust locking connector to further safeguard the user.



## Model List - VHF

Model	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DT944	ATEX IIC	VHF	Display	Analogue	1 watt
DT942	ATEX IIC	VHF	Non	Analogue	1 watt
DT844	ATEX IIB	VHF	Display	Analogue	3.9 watts
DT842	ATEX IIB	VHF	Non	Analogue	3.9 watts
DT544	IECE <sub>x</sub> IIB	VHF	Display	Analogue	3.9 watts
DT542	IECE <sub>x</sub> IIB	VHF	Non	Analogue	3.9 watts

## Model List - UHF

Model	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DT985M	ATEX IIC	UHF	Display	Analogue & Digital	1 watt
DT982M	ATEX IIC	UHF	Non	Analogue & Digital	1 watt
DT885M	ATEX IIB	UHF	Display	Analogue & Digital	2 watts
DT882M	ATEX IIB	UHF	Non	Analogue & Digital	2 watts
DT585M	IECE <sub>x</sub> IIB	UHF	Display	Analogue & Digital	2 watts
DT582M	IECE <sub>x</sub> IIB	UHF	Non	Analogue & Digital	2 watts



## Key Features

- ✓ Industrial grade construction
- ✓ IP68 submersible
- ✓ Digital and analogue modes
- ✓ Outstanding range and performance
- ✓ Crystal clear audio
- ✓ High contrast white on black OLED
- ✓ Simple on-board reprogramming app
- ✓ Extensive range of approved accessories
- ✓ Supports 3rd party BA kit
- ✓ Audio accessory optimisation

## Technical Specification

General			
Frequency Range	VHF	156 to 163.275MHz	
	UHF	450-470MHz	
Channel Spacing	12.5 & 25KHz		
Operating Voltage	7.4v		
Weight	435g		
Overall Dimensions (HxWxD)	138mm x 60mm x 38mm		
Channels	VHF	INT/USA/CAN mode plus private	
	UHF	up to 99	
Channels non display version	up to 16		
Battery Endurance (5/5/90)	<b>Model</b>	<b>Analogue mode</b>	<b>Digital mode</b>
	DT944	14 hours	n/a
	DT844/544	12 hours	n/a
	DT985	14 hours	17.5 hours
	DT885/585	12 hours	17 hours
*non display models have improved duty cycle of 15%			
Transmitter			
Output Power UHF	ATEX IIC	1 Watt	
	ATEX IIB	2 Watts	
Output Power VHF	ATEX IIC	1 Watt	
	ATEX IIB	3.9 Watts	

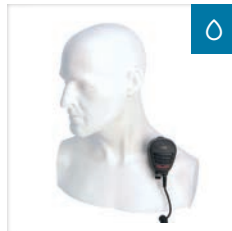
Receiver	
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER
Environmental	
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	MIL-STD810 C/D/E/F/G
Humidity	
Shock & Vibration	
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible
Approvals	EN 300 720 v2.1.1 EN 301 178 v2.2.2 EN 301 843-1 v2.2.1 EN 301 843-2 v2.2.1 EN 301 489-1 v2.2.0 & EN 301 489-5 v2.2.0 EN 300 113 v2.2.1 EN 60945:2002 EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 EN 50566:2017, EN 62311:2008 & EN 62209-2:2010
Ex Protection	ATEX II 2G Ex ib IIB T4 Gb ATEX II 2G Ex ib IIC T4 Gb IECEX Ex ib IIB T4 Gb

## Accessories

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



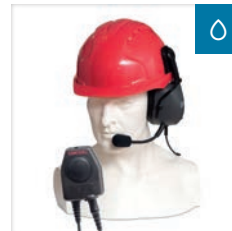
**CSBHT**  
Intelligent six-pod rapid charger



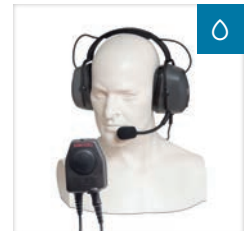
**CMP/DT9** Heavy duty speaker microphone for DT900 and DT800 series  
**CMP/DT5** for DT500 series



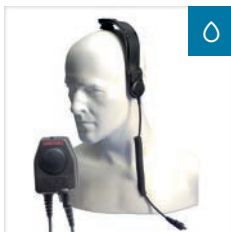
**CLCDT2** – non display  
**CLCDT5** – display  
A heavy duty leather carry case with swivel belt loop and strap



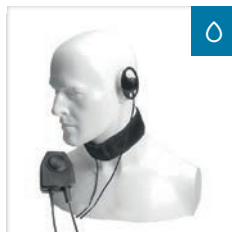
**CHPHS/DT9\***  
Single sided ear defender headset for hard hat use



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



**CXR5/DT9\***  
Bone conductive skull mic with heavy duty PTT



**CXR16/DT9\***  
Throat mic / earpiece with heavy duty PTT



**3rd Party BA**  
Supports 3rd party BA comms kits

Submersible products are represented with a water droplet.

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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## Contact

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