

Business
Critical
Communications

Entel

DTEX 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_x Series

Intrinsically Safe, Commercial Marine Portables

Available in either VHF or UHF, display and non-display models, the industrial grade DTE_x 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_x portables deliver loud and intelligible audio, essential when working in high ambient noise environments.

IP68 2 Metres, 4 Hours Submersible

The DTE_x 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_x 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_x also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

*Digital mode only available on UHF models

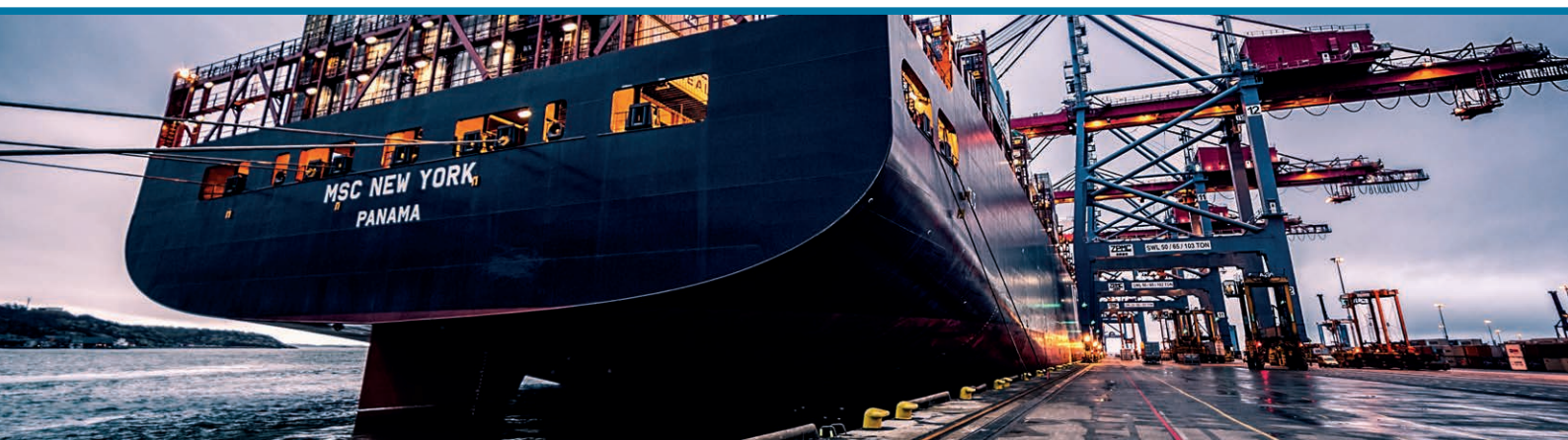


Informative display shows both the channel number and the frequency



Non display model

Display model



Migrate to Digital Your Way

DTE_x 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_x 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_x 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_x 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 _x IIB	VHF	Display	Analogue	3.9 watts
DT542	IECE _x 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 _x IIB	UHF	Display	Analogue & Digital	2 watts
DT582M	IECE _x 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 256
Channels non display version	up to 16	
Battery Endurance (5/5/90)	Model	Analogue mode Digital mode
	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

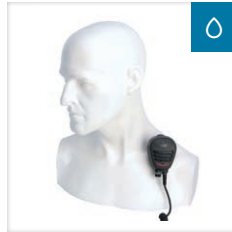
Receiver	
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER
Environmental	
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	
Humidity	
Shock & Vibration	MIL-STD810 C/D/E/F/G
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible
Approvals	EN 300 720 v2.1.1 EN 300 178 v2.1.1 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.



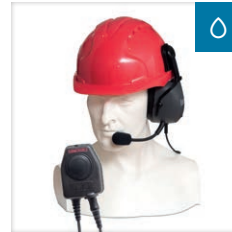
CSBHT
Intelligent six-pod rapid charger



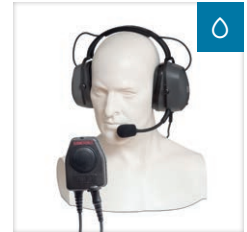
CMP/DT9 Heavy duty speaker microphone for DT900 and DT800 series
CMP/DT5 for DT500 series



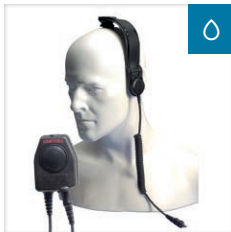
CLCDT5
A heavy duty leather carry case with swivel belt loop and strap



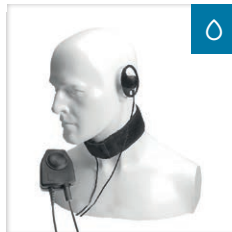
CHPHS/DT9*
Single sided ear defender headset for hard hat use



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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