DTEx Marine FAQs

What are the key benefits of Entel's DTEx I.S. (Intrinsically Safe) radios?

- **Two options of gas groups to meet all on-board marine requirements**
  DT900 Series meets the most stringent standards per IIC classification, the DT800 Series is approved to IIB.

- **The most natural sounding I.S. radio in both Digital and Analogue modes**
  All DTEx radios use Entel's speech tailoring technology to deliver the most natural sounding audio from any I.S. DMR Digital radio, not robotic like other DMR radios

- **The loudest audio**
  Entel's DTEx radios deliver the loudest audio of all the I.S. radios we tested, essential when working in noisy environments.

- **Exceptional performance with market leading Breathing Apparatus (BA) com kits**
  DTEx radios have been specifically tailored for use with several market leading BA Com kits. This is achieved by each BA Com kit having its own audio profile stored within Entel's DTEx radios.

- **Submersible and robust**
  Being IP68 (4m 2h) submersible, DTEx radios offer the best protection against liquid and dust ingress of all I.S. radios currently available.

- **Certified to both ATEX & IECEx standards**
  The DT800 and DT900 Series is approved to the ATEX standard whilst the DT500 Series is approved to IECEx standard.

- **High contrast white on black OLED display**
  DTEx radios benefit from a high contrast while on black OLED display that delivers superior readability in all light conditions. Subject to your requirements, DTEx OLED display can be programmed to give you a simple large and easy to read display or display more detailed information.

- **Accessory audio optimisation**
  Entel's intelligent speech tailoring technology optimises audio to match the connected accessory; ensuring the very best clarity,
  volume and natural sounding audio.

Why do Entel's DT500 & DT800 Series Marine UHF radios only transmit at 2 Watts RF power?

This is a global regulation that on-board UHF radios have a maximum RF power of 2 watts ERP, all manufactures have responsibility to be compliant with this regulation.

What Approvals do the DT Marine models have?

Entel RED approvals can be found at www.entel.co.uk/red

Entel MED approvals can be found at www.entel.co.uk/med

Can we program the DT radios on-boards?

Yes, DTEx radios can easily be re-programmed on-board, please see this video: https://youtu.be/aJ7DI8oPm6w

Can we use voice annunciation for non-display models?

Yes, the radios channel number will be announced, in the case of VHF Marine models the Marine channel number will be announced as opposed to the channel switch position.

DTEx Marine FAQs

Do Entel's DTEx radios work with my existing Entel / other make I.S. and non I.S. radios?

Supporting both analogue and DMR digital modes ensures backwards compatibility with existing analogue radio systems; it is also the route to migrating to fully-digital operations at your own pace.

What are the main benefits of using Digital vs. Analogue?

- Digital radios don't suffer from static like Analogue radios so sound much better when receiving a weak signal or being used near to equipment that is causing radio interference
- Digital radios have a significantly longer operational time on a single charge (up-to 40% longer, compared to Analogue)
- DTEx has exceptional audio quality, far superior to any analogue portables

What battery technology is used for DTEx radios?

DTEx radios batteries are Lithium-ion (Li-ion), the key benefits are:

- Other rechargeable battery technologies suffer with a higher self-discharge rate. Lithium-ion cells rate of self-discharge is much lower than that of other rechargeable technologies such as Ni-Cad and NiMH
- Lithium-ion batteries do not require any maintenance to ensure their performance.
  Ni-Cad cells required periodic discharge maintenance to ensure that they did not exhibit memory effect.

What is DTEx radios battery endurance from a single charge?

Two-way radio battery endurance measurements are standardised as a 5-5-90 duty cycle
(5% transmitting, 5% receiving & 90% standby).

DTEx radios 5-5-90 duty cycle endurance in Digital mode at full transmitter power are:

- IIC 1W versions = 17.5 Hours
- IIB 2W versions = 17 Hours

What Entel accessories are available for DTEx radios?

Please see the current list of Entel DTEx accessories here: https://www.entel.co.uk/products/range/accessories

Click on the DTEx model filter:

Model Selection Filter

Model

- ☐ DN
- ☑ DTEx
- ☐ DX
- ☐ HT
- ☐ HX

Can my old HT Accessories be used with DTEx radios?

The only HT accessory that can be used with DTEx is the charger.

DTEx Marine FAQs

What other accessories are available for DTEx radios?

Other than those listed on Entel's website and quick start guide, no other accessories are supported or certified as safe to use with DTEx radios. In addition, due to DTEx built-in safety features, unsupported accessories will not work with DTEx radios and the radio will enter its unsafe accessory attached alarm state. If you have a specialist accessory you would like to use with DTEx radios please ask your Entel Dealer to contact us to discuss the possibility of supporting it.