# DX-IS Marine FAQs

## What are the key benefits of Entel's DX-IS (Intrinsically Safe) radios?

- **Approved and certified to UL913**
  Ideal for users who do not need to comply with the European ATEX directive

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

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

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

- **High contrast white on black OLED display**
  DX-IS radios benefit from a high contrast while on black OLED display that delivers superior readability in all light conditions. Subject to your requirements, DX-IS 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.

## What Approvals do the DX-IS 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 DX-IS radios on-board?

Yes, DX-IS radios can easily be re-programmed on-board, please see this video.

## How do I know I have the right channel whilst using non-display models?

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

## Do Entel's DX-IS radios work with my existing Entel / other make Intrinsically Safe and non Intrinsically Safe 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)
- DX-IS has exceptional audio quality, far superior to any analogue portables

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## Which battery technology is used for DX-IS radios?

DX-IS 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.

## How long will the battery last in my DX-IS radio 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).

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

- Analogue mode    =    18 Hours
- Digital mode    =    22 Hours

## What Entel accessories are available for DX-IS radios?

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

Click on the DX-IS model filter:

**Model Selection Filter**

**Model**

- ☐ DN 🛈
- ☐ DTEX
- ☐ DX
- ☐ HT 🛈
- ☐ HX 🛈
- ☑ DX-IS

## Can my old HT Accessories be used with DX-IS radios?

The only HX accessory that can be used with DX-IS is the charger.

## What other accessories are available for DX-IS 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 DX-IS radios. In addition, due to DX-IS built-in safety features, unsupported accessories will not work with DX-IS radios and the radio will enter its unsafe accessory attached alarm state. If you have a specialist accessory you would like to use with DX-IS radios please ask your Entel Dealer to contact us to discuss the possibility of supporting it.