

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

- **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 are approved to the ATEX standard which is the only standard legal for use in Europe. For those markets outside Europe that can accept non ATEX product, Entel offers the DT500 Series IECEx approved models.
- **High contrast white on black OLED display**
DTEx radios benefit from a high contrast white 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.

Can we use voice annunciation for non-display models?

Yes, the radios channel switch number will be announced as you change channel.

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 I.S. standards do Entel's DTEx radios comply with and what is the power output?

DTEx radio variants are available for all the following standards:

- ATEX II 2G Ex ib IIC T4 Gb – 1W Licensed and 0.5W License Free (PMR446)
- ATEX II 2G Ex ib IIA T4 Gb – 4W
- IECEx Ex ib IIA T4Gb – 4W

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)
- DTEEx has exceptional audio quality, far superior to any analogue portables

What battery technology is used for DTEEx radios?

DTEEx 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 DTEEx 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).

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

- 1W Licensed versions = 17.5 Hours
- 0.5W License Free = 18.0 Hours
- 4W Licensed versions = 14.5 Hours

What Entel accessories are available for DTEEx radios?

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

Click on the DTEEx model filter:

Model Selection Filter

Model

- DN[®]
- DTEEx
- DX
- HT[®]
- HX[®]

Can my old HT Accessories be used with DTEEx radios?

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

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

If my DTEEx radios need re-programming do I need to send them back to my Dealer or have my Dealer call out to site?

No, DTEEx radios can easily be re-programmed on site without your Dealer having to visit you (just like our DX400 non I.S. radios) please see this video: <https://youtu.be/aj7DI8oPm6w>

Do DTEEx radios have Emergency features to keep lone working staff safe?

Yes, all DTEEx radios (except DMR/PMR446 models) support Emergency Button, Lone-Worker check & Man-Down sensor.

Do DTEEx radios offer any form of Encryption?

Yes, if permitted in your country, DTEEx radios will support the following encryption methods:

- ARC4
- AES128
- AES256

Other encryption methods can be supported (subject to commercial justification and timescales).

What Frequency bands are supported by DTEEx radios?

We have variants of DTEEx available to cover the following bands:

- 400-470MHz (Land & Marine variants)
- 446.0-446.2MHz (DMR/PMR446 License Free band)
- 136-174MHz

Other bands, including the bands listed below, will be available in the future.

- 66-88MHz
- 450-520MHz

Subject to commercial justification and timescales most frequency bands can be developed. If you require a band that is not listed please contact your Entel Dealer.

Do DTEEx radios support Text Messaging?

Yes, DTEEx radios support the DMRA standard text messaging format so they are compatible with any other radios that also support the DMRA industry standard.

DTEEx radios can receive and display a free format text message. As DTEEx radios don't have a full keypad they will send pre-programmed text messages as decided by you.