DN400 Series
4G LTE Wi-Fi PoC Radio

- MCX (Mission Critical Services) Ready
- Industrial Grade IP68
- Basic to Advanced Configuration
- Simple User Management

National Cellular Network

AES 256 SECURITY ENCRYPTION

www.entel.co.uk/dn400
Entel’s DN400 4G LTE Wi-Fi PoC radios operate on National cellular networks. Combine this with the simplicity of traditional PTT operation and DN400 radios deliver a significant step forward in capability and user benefits. A Smartphone App, Radio Gateway and PC Dispatcher options add even more flexibility.

**Practically unlimited range**
DN400 radios deliver instantaneous PTT calling over Cellular & Wi-Fi networks. Entel’s multi-network un-steered roaming sim offers the very best network access and coverage.

**Basic to Advanced Configuration**
DN400 radios can be configured for simple press to talk operation or the more sophisticated features that you’d expect of a high-end two-way radio system.

**No limitations**
The DN400 enables your workforce to make a practically unlimited number of simultaneous calls.

**No license, no Interference!**
There’s no need for a radio license and best of all you won’t suffer channel interference from other radio users.

**Cost Effective**
With no need for your own expensive infrastructure Entel’s simple pricing options are especially attractive when compared to traditional two-way radio systems.

**Ready To Go**
DN400 radios are supplied preconfigured and ready for use, just unpack, charge and go!

Entel’s E-PoC software has been optimised in conjunction with TASSTA GmbH.
Instantaneous updates
DN400 radios are updated and programmed over the air (OTA), instantly, no matter where they are.

Scalable
Entel’s simple and flexible pricing options can be adapted to your business needs. There are no heavy up-front infrastructure or ongoing Site / Line rental, IP Link or License costs to worry about.

Cross Platform Communications
DN400 radios form part of a solution that can unify your mobile communications. Other products in the range include a PC Dispatcher App, Smartphone App & Radio Gateway (allowing connection with existing radio systems), everyone can talk together at the press of a button.

Secure & Resilient Communications
Entel’s service utilises AES-256 encryption to ensure the highest level of privacy and data security. Entel’s servers are locally hosted, e.g. Entel’s EU server is hosted in a UK Tier III+ data centre with further remote back up servers.

Comprehensive Maintenance
In addition to the standard 2-Year Warranty, Entel’s optional 3 / 5-Year Comprehensive Maintenance service also covers accidental damage.

Presence Check
If required, DN400 radios can be configured to indicate which users are on-line.

Ultra-Compact & Loud!
DN400 radios are the most robust, compact commercial Grade LTE radios available today. Despite their compact size they produce outstanding audio clarity & volume levels that exceeds radios twice their size.

Accessories
A comprehensive range of high quality Entel accessories are available from covert earpieces to bone conductive and Bluetooth options.

Lowest Call Latency
Entel’s Radios, Apps, Servers and SIM’s have all been optimised to deliver call latency times equivalent to DMR radio systems.

Rapid Deployment
DN400 radios can be deployed anywhere in just a few hours. Perfect for applications such as highways maintenance, events and logistics etc.

Emergency Features
DN400 supports an Emergency button, Lone-Worker and Man-Down features with automatic transmission of the radios precise location.

Key Features
- Compact, rugged
- IP68 Submersible
- Outstanding battery endurance
- 3 Watts of audio, loudest in class
- Built-in GPS & Bluetooth
- AES256 Encryption as standard
- OTA Programming & Updates
- Practically unlimited range
- Practically unlimited simultaneous calls
- High contrast white on black OLED display
- No expensive license fees or Infrastructure
- Works out of the box
DN400 highlights

**IP68 Commercial Grade Construction**
Exceeding MIL-STD 810C/D/E/F/G and IP68 2 meters, 4 hours Submersible, DN400 radios undergo rigorous life-cycle testing and are designed to deliver many years of trouble free use, even in the most demanding of environments.

**Drop-In Charger as standard**
DN400 radios are supplied with a rapid, drop-in charger as standard.

**High Contrast OLED**
DN400’s OLED display provides exceptional readability in all conditions. The display shows important information such as the selected channel, who’s calling, contact list, signal strength, battery charge etc.

**23 Hours Battery Endurance**
From a single charge, DN400 radios deliver a market leading battery endurance time of up-to 23-hours.

**GPS & Bluetooth**
DN400 radios can be configured to send their location for both management and safety purposes. This information can be displayed and managed via the PC Dispatchers map. Bluetooth supports Entel’s range of Bluetooth audio accessories.

**Rugged Accessory Socket**
DN400’s rugged locking accessory socket is submersible (even with its cover removed) and gold-plated contacts minimise any risk of damage from corrosion. All Entel’s accessories also incorporate gold-plated contacts, a robust plug and high-grade cable.
DN400 Feature highlights
- Individual calls
- Group calls
- Dynamic Groups
- Presence Check
- AES-256 (as standard)
- Text Messaging
- Status Messaging
- Broadcast Calls
- Call Interrupt
- Sending GPS location

Emergency features:
- Panic Button
- Lone Worker
- Man Down

PC Despatcher Feature highlights
- Group, Individual & Broadcast Voice Calls
- Presence Check
- Dynamic Groups
- Emergency Call Management
- Remote Monitor
- Text Messaging
- Status Messaging
- Call Interrupt
- GPS Mapping
- Voice Recording
- Data logging
- Optional indoor location
- Optional location tool e.g. Geofencing

Smartphone App Feature highlights
- Individual Calls
- Group Calls
- Dynamic Groups
- Presence Check
- Text Messaging
- Status Messaging
- Broadcast Calls
- Call Interrupt
- Sending GPS location
- Map

Emergency features:
- Panic Button
- Lone Worker
- Man Down

Radio Network Gateway Feature highlights
Connect two or more different radio systems with each other, supports:
- Entel PoC
- DMR T2 & T3
- Analogue PMR
- MPT1237
- TETRA
- NXDN

Also Supports:
- Group & Individual Calling
- Group & Individual Text
- Messaging
- GPS tracking
Technical Specification

### Frequencies, Standards & Approvals

<table>
<thead>
<tr>
<th>Frequency Bands</th>
<th>Standards &amp; Approvals</th>
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<tbody>
<tr>
<td>DN495</td>
<td>EMEA, Korea, Thailand, India</td>
</tr>
<tr>
<td></td>
<td>LTE FDD: B1/B3/B5/B7/B8/B20</td>
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<tr>
<td></td>
<td>LTE TDD: B38/B40</td>
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<tr>
<td></td>
<td>WCDMA: B1/B5/B8</td>
</tr>
<tr>
<td></td>
<td>GSM: 850/900/1800/1900MHz</td>
</tr>
<tr>
<td></td>
<td>2.4G/5.8G 802.11 a/b/g/n*</td>
</tr>
<tr>
<td></td>
<td>Other band variants available on request</td>
</tr>
<tr>
<td>Wi-Fi</td>
<td>2.4GHz / 5.8GHz 802.11 a/b/g/n*</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>BT2.1+EDR / 3.0 / 4.1LE</td>
</tr>
<tr>
<td>Satellite positioning</td>
<td>GPS / GLONASS / BeiDou (BDS)</td>
</tr>
<tr>
<td>Dust &amp; Liquid protection</td>
<td>IP68 (2 metres for 4 hours fully submersible)</td>
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<tr>
<td>Shock &amp; Vibration</td>
<td>Drop test MIL-STD-810 C/D/E/F/G</td>
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<tr>
<td>Packing test</td>
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</tr>
<tr>
<td>Encryption</td>
<td>AES256</td>
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<tr>
<td>ESD</td>
<td>IEC 61000-4-2</td>
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<tr>
<td>Approvals</td>
<td>Please see: <a href="http://www.entel.co.uk/red">www.entel.co.uk/red</a></td>
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* 5.8GHz variant on request

### General

<table>
<thead>
<tr>
<th>Channel capacity</th>
<th>Virtually unlimited</th>
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<tbody>
<tr>
<td>Contact list</td>
<td>&gt;1000</td>
</tr>
<tr>
<td>Dimensions</td>
<td>97mm x 59.5mm x 33mm (with CNB420E battery)</td>
</tr>
<tr>
<td></td>
<td>97mm x 59.5mm x 37mm (with CNB450E battery)</td>
</tr>
<tr>
<td>Weight</td>
<td>243g (with CNB420E battery)</td>
</tr>
<tr>
<td>Battery, Capacity</td>
<td>CNB420E - 1350mAh - Li-Ion - 16 Hours</td>
</tr>
<tr>
<td></td>
<td>CNB450E - 2000mAh - Li-Ion - 23 Hours</td>
</tr>
<tr>
<td>SIM Card slot</td>
<td>Nano (4FF) Entel’s SIM is internal to the radio</td>
</tr>
<tr>
<td>Audio Output</td>
<td>3-Watts RMS (internal &amp; external speaker)</td>
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<tr>
<td>Microphone</td>
<td>Echo cancellation &amp; Noise reduction</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to +60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30 to +75°C</td>
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### Accessories

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

- **CSBHx**  
  Six-way charger

- **EA12/DX**  
  Earpiece microphone

- **EA15/DX**  
  Covert earpiece microphone

- **CHP450HS/DX**  
  Hard hat ear defender
  Submersible PTT

- **CHP450D/DX**  
  Headband ear defender
  Submersible PTT

- **CMP/DX**  
  Submersible heavy-duty speaker microphone

- **CXR16/DX**  
  Bone conductive throat mic, submersible PTT

- **CXE19/DX**  
  Submersible bone Conductive skull mic

For the complete range of accessories please visit our website. All specifications are subject to change without notice.

* Submersible - PTT only

Contact

For more information about our products, please contact us:

Entel UK, 320 Centennial Avenue Centennial Park, Elstree, Borehamwood, Hertfordshire WD6 3TJ, United Kingdom

+44 (0)20 8236 0032  
info@entel.co.uk  
entel.co.uk

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