Reliable and smart mobiles for business critical communications.

Designed for mission-critical environments, Tait DMR offers a secure and reliable digital communications solution based on the DMR standard.

The TM9315 mobile offers MPT, trunked DMR, conventional DMR and Analog FM operation. Its rugged design delivers straightforward voice communications in demanding environments.

KEY FEATURES

- Future proof multi-mode mobile (DMR trunked, DMR conventional, MPT 1327 and conventional analog FM)
- Roaming between MPT and DMR Tier 3 trunked networks
- Roaming between FM Conventional and DMR Tier 2 Networks
- Open DMR standard provides choice and interoperability
- Engineered for use in demanding environments with IP54 rating
- Audio clarity provided by noise reducing digital technology
- High quality audio
- A range of accessories including hands free microphones and GPS antennas
- GPS capable to improve efficiency and safety
- Support for digital encryption
### FEATURES AND BENEFITS*

#### TM9315 features to improve workforce safety
- Digital technology improves audio quality and reduces background noise to ensure clear communications
- High quality voice ensuring the operator and users will understand the message
- Emergency calls have priority access to the network
- GPS capable (software/hardware option) radio ensures that you always know where your workforce is
- Lone Worker

#### Improve your organizations' efficiency
- 100 channel/talk-group capacity gives considerable flexibility
- Trunked operation allows for individual and private calls within designated groups
- Up to four trunked networks supported (MPT standard, DMR Tier 3 as a software option)
- Up to 100 call presets per trunked network
- Over-the-air-programming (OTAP) with the industry-leading EnableFleet configuration management system delivers software and firmware changes over the Tait DMR Tier 3 radio network, making it faster, easier and more affordable to update and optimize the performance of the radios in your fleet

#### Facilities to improve network security
- Optional 56bit DES encryption ensures privacy of conversations
- Stun and Revive are implemented to temporarily deny a specific mobile access to the network
- When operating in DMR mode all terminals must be authenticated on the network before they are given access

#### Designed to perform in demanding environments
- High power external speaker option
- Rugged standard microphone
- Tough die-cast metal chassis with IP54 rated casing, giving protection against dust and splashing water

#### Voice communications delivering on operational needs
- Quad mode terminal offering, Conventional DMR Tier 2, conventional FM, MPT 1327 and trunked DMR (software option) in one device
- Roaming between Conventional FM and Conventional DMR networks
- Roaming between MPT 1327 and trunked DMR networks
- Group calls allow separate teams to communicate amongst themselves without having to listen to irrelevant traffic
- Channel capacity with support of up to 100 channels
- Digital simplex mode
- Analog capability, includes foreground scan, CTCSS and DCS
- High quality voice
- Shared programming structure between 9300 terminals

#### Complete package with accessories portfolio
- Audio accessories are available including microphones and external speakers
- Variety of power supply units are available for your region and your specific application
- Vehicle installation kits for different mounting options
- Programming and service kits for ease of configuration and set up

#### Smart features
- Low standby power consumption
- Wide power control 1:25 ratio (25W)
- Duty 33% transmit 2 minute TX 4 minute RX (25W)
- CCDI control over conventional channels
- RAP control for trunked networks
- Control of digital outputs by status messages

#### Data Services
- Short data messages for location
- CCDI connectivity to the mobile for short data and control messages in conventional mode
- RAP connectivity to the mobile for short data and control messages in trunked mode

---

*Not all features are supported in all modes of operation. Feature comparison tables are available in the full product catalog.*
# TM9315 Specifications

## General

- **Frequency stability**: +0.5ppm (-22°F to 140°F/-30°C to 60°C)
- **Conventional Mode**
  - Networks: 1
  - Channels/zones: 100 channels, 1 zone
  - Scan/Verify groups: 300
- **Trunked Mode**
  - Networks: 4
  - Talk groups: 32 talk groups
  - Zones and work groups: 0
- **OTAP**
  - Supported (DMR Tier 3)
- **Dimensions**
  - Body - in (mm): Height 25W: 21 (52), Width: 25W: 6.3 (160), Depth: 25W: 6.9 (175)
  - 2 digit control head - in (mm): Height: 2.0 (50), Width: 6.9 (175), Depth: 1.8 (35)
- **Weight - lb (kg)**
  - Body: 25W: 2.6 (12), Control head: 0.4 (0.18)
- **Channel spacing**: 6.25/12.5/15/20/25/30kHz
- **Frequency increment/channel step**: 2.5/3125/5/625kHz
- **Operating temperature**: -22°F to 140°F (-30°C to 60°C)
- **Water and dust protection**: IP54
- **ESD rating**: +/-4kV contact discharge and +/-8kV air discharge
- **Rated audio**: 3W (Internal speaker): 10W (external speaker)
- **Power supply**: DC: 10.8 - 16V DC, AC: Desk top PSU - 100 to 230V or 200 to 250V
- **Air interface standard**: DMR: ETSI TS 102 361
- **Signaling options (Analog)**
  - PL (CTCSS), DPL (DCS), Selcall, T99, MDC1200, MPT 1327
- **Signaling options (Digital)**
  - DMR Tier 2, DMR Tier 3 (option)
- **Vocoder type**: AMBE +2™
- **Packet Data**
  - ½ Rate, × Rate, Full rate, Single Slot

## Transmitter

### VHF

- **Frequency range**: 136-174MHz
- **Output power**
  - 25W Models: 25W, 10W, 5W, 1W
- **Input current (Typical)**
  - Standby: 0.1A
  - 25W Models: 4.7A
- **FM Hum and noise (Analog)**
  - 12.5kHz: -40dB
  - 25kHz: -45dB
- **Adjacent channel power - static (Analog)**
  - @ 12.5kHz offset: -60dB
  - @ 25kHz offset: -70dB
- **Adjacent channel power - static (Analog)**
  - ETS 300-113: 12.5kHz: 60dB
  - Conducted/radiated emissions:
    - Audio response: +1/-3dB
    - Audio distortion (Analog): 2.5% @kHz, 60% deviation
    - Duty cycle: 25W: 2min Tx, 4min Rx for 8 hrs @ 140°F (+60°C), 5W continuous @ 104°F (+40°C)

### UHF

- **Frequency range**: 320-380MHz (G1)
- **Output power**
  - 25W Models: 25W, 10W, 5W, 1W
- **Input current (Typical)**
  - Standby: 0.1A
  - 25W Models: 4.7A
- **FM Hum and noise (Analog)**
  - 12.5kHz: -40dB
  - 25kHz: -45dB
- **Adjacent channel power - static (Analog)**
  - @ 12.5kHz offset: -60dB
  - @ 25kHz offset: -70dB
- **Adjacent channel power - static (Analog)**
  - ETS 300-113: 12.5kHz: 60dB
  - Conducted/radiated emissions:
    - Audio response: +1/-3dB
    - Audio distortion (Analog): 2.5% @kHz, 60% deviation
    - Duty cycle: 25W: 2min Tx, 4min Rx for 8 hrs @ 140°F (+60°C), 5W continuous @ 104°F (+40°C)

*Wideband operation is not available in the USA in some bands.*
### RECEIVE

<table>
<thead>
<tr>
<th></th>
<th>VHF</th>
<th>UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>136-174MHz</td>
<td>400-470MHz (H5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>450-520MHz (H17)</td>
</tr>
<tr>
<td>Sensitivity (Analog)</td>
<td>-120dBm (0.22μV)</td>
<td>-120dBm (0.22μV)</td>
</tr>
<tr>
<td>Sensitivity (DMR) 5% BER</td>
<td>-119dBm (0.25μV)</td>
<td>-119dBm (0.25μV)</td>
</tr>
<tr>
<td>Intermodulation rejection</td>
<td>EIA603D</td>
<td>76dB</td>
</tr>
<tr>
<td></td>
<td>ETS 300-113</td>
<td>70dB</td>
</tr>
<tr>
<td></td>
<td>EIA603D</td>
<td>80dB</td>
</tr>
<tr>
<td></td>
<td>ETS 300-113</td>
<td>70dB</td>
</tr>
<tr>
<td>Spurious response rejection</td>
<td>EIA603D</td>
<td>12.5kHz, 52dB</td>
</tr>
<tr>
<td></td>
<td>ETS 300-113</td>
<td>12.5kHz, 52dB</td>
</tr>
<tr>
<td>FM hum and noise (Analog)</td>
<td>25kHz - 45dB</td>
<td>25kHz - 45dB</td>
</tr>
<tr>
<td>Conducted spurious emissions</td>
<td>-57dBm</td>
<td>-57dBm</td>
</tr>
<tr>
<td>Selectivity (Analog)</td>
<td>EIA603D (2 Tone)</td>
<td>12.5kHz, 52dB</td>
</tr>
<tr>
<td></td>
<td>ETS 300-086</td>
<td>12.5kHz, 62dB</td>
</tr>
<tr>
<td>Optional external speaker output</td>
<td>10W (into 4ohms)</td>
<td>10W (into 4ohms)</td>
</tr>
<tr>
<td>Audio distortion (rated audio)</td>
<td>2%</td>
<td>2%</td>
</tr>
</tbody>
</table>

### MILITARY STANDARDS 810C, D, E, F AND G

<table>
<thead>
<tr>
<th>Applicable MIL-STD Method</th>
<th>Method</th>
<th>Procedure</th>
<th>Applicable MIL-STD Method</th>
<th>Method</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure</td>
<td>5005</td>
<td>2</td>
<td>Humidity</td>
<td>5075</td>
<td>2</td>
</tr>
<tr>
<td>High temperature</td>
<td>5015</td>
<td>1.2</td>
<td>Salt Fog</td>
<td>509.5</td>
<td>1</td>
</tr>
<tr>
<td>Low temperature</td>
<td>5025</td>
<td>1.2</td>
<td>Sand &amp; Dust</td>
<td>510.5</td>
<td>1.2</td>
</tr>
<tr>
<td>Temperature shock</td>
<td>503.5</td>
<td>1</td>
<td>Vibration</td>
<td>514.5</td>
<td>1</td>
</tr>
<tr>
<td>Solar radiation</td>
<td>505.5</td>
<td>1</td>
<td>Shock</td>
<td>516.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Rain</td>
<td>506.5</td>
<td>1.3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### REGULATORY DATA**

<table>
<thead>
<tr>
<th></th>
<th>USA</th>
<th>CANADA</th>
<th>EUROPE</th>
<th>AUSTRALIA/NZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF (136-174MHz)</td>
<td>CFR 47</td>
<td>RSS-119</td>
<td>EN300-086, EN300-113, EN300-219, EN301-449, EN60950</td>
<td>AS/NZS4295</td>
</tr>
<tr>
<td>UHF (400-470MHz)</td>
<td>CFR 47</td>
<td>RSS-119</td>
<td>EN300-086, EN300-113, EN300-219, EN301-449, EN60950</td>
<td>AS/NZS4295</td>
</tr>
<tr>
<td>UHF (450-520MHz)</td>
<td>CFR 47</td>
<td>RSS-119</td>
<td>NA</td>
<td>AS/NZS4295</td>
</tr>
</tbody>
</table>

**The Australia/New Zealand approvals are available, for other jurisdictions please contact your local Tait representative.

---

**The word “Tail” and the Tail logo are trademarks of Tail International Limited.

Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and AS OHSAS 18001:2007 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO 9001.