

# Great value, easily personalized

The TP3 series is a unique, highly customizable portable radio. Operating in DMR Tier 2 and analog, it puts the power to choose the color, display, keypad, and labels for each radio in your hands.

If your needs evolve, the TP3 allows you to change these options quickly and cost-effectively - any time!

The TP3 is the only radio that gives you the power to choose - and the power to change - with such ease and affordability.





### FEATURES AND BENEFITS

The TP3 series is a great value, dual mode portable radio, capable of Analog Conventional and DMR Tier 2. Each radio is highly customizable and can be fit with the color, keypad, and label of your choice.

Smart features in the TP3350 also include voice annunciation, GPS, Man Down, Bluetooth, and vibration alert.

#### Choose Your Own Color

Each TP3 radio is available in a range of colors, giving your organization the freedom to choose radios that look the way you want. Organize your portables using color to quickly identify specific teams. Colors can be selected to match your brand guidelines, or to stand out better in environments they need to be seen in.

The front panel of the radio is interchangeable, allowing you to purchase a black radio, then later change it to a different color - saving time and money over purchasing a whole new portable.

#### Choose Your Display and Keypad

Three keypad options are available:

- No Key, No Display model (0-key)
- 4-Key, Color Display model (4-key)
- 16-Key, Color Display (16-key)

The 4-Key and 16-key models come with a 160x128 pixel, 1.77" color display. You can customize the power-up display to contain your

logo, radio ID, assigned owner, or any other image. The display can be used to select from the 2000 channels, for text messages, caller ID, or identifying talk groups.

The 0-Key radio does not come with a display. Should you want to upgrade to a 4-key or 16-key radio with a display, the cover can quickly and easily be changed, instantly enhancing your portable to include the display and keys.

#### Choose Your Label

Each radio is built with designated spaces for custom labels. Die-cut labels are high-tack adhesives, color-customized, and waterproof, alcohol, chemical and smudge resistant.

Custom-designed labels can be personalized to carry your brand logo, specific talk groups or radio type, user identification, or anything else you can imagine. This means that your radio can be completely unique to your organization, and individual radios can be personalized for each user.

#### Voice Annunciation

Keep your eyes up and focused on the task at hand while changing channels or features with the voice annunciation capabilities. The loud and clear voice will give users confidence their radio is set up and functioning correctly.

#### Increase Health and Safety

Reliable and clear communications are essential for health and safety. If someone on your team needs assistance, you need to trust that they can call for help. Each TP3 radio is remarkably simple to use, meaning users can quickly and easily connect to the right person or group.

If safety is a high priority in your industry, then the TP3350 model provides a series of features that help increase worker safety, such as:

- **Vibration alerts** to help ensure every text message is detected.
- **GPS**, which allows you to locate your staff, check their progress, and ensure they aren't lost or off track.
- **Man Down**, which sends an alert to dispatch when the radio detects unusual tilt or inactivity, such as when someone on your team has been injured and collapses.

Combined, GPS and Man Down enable you to quickly identify the injured person's location and the location of other workers nearby. This means help can arrive within a matter of minutes, even seconds. Fast response time can mean the difference between life and death.

| GENERAL                                  | 136-174MHZ  | 400-480 / 450-520MHZ*   |
|--|---|---|
| Frequency stability                      | 1.0 ppm -22°F to 140°F , 77°F ref<br>(-30 to +60°C, 25°C ref) | 1.0 ppm -22°F to 140°F , 77°F ref<br>(-30 to +60°C, 25°C ref) |
| Digital Protocol                         | ETSI TS 102 361-1, 2, 3                                       | ETSI TS 102 361-1, 2, 3                                       |
| Battery voltage                          | 7.5V  | 7.5V  |
| Standard battery capacity                | 2000mAH Lithium-ion   | 2000mAH Lithium-ion   |
| Channel capacity 0-Key radio             | 32  | 32  |
| Channel capacity 4-key and 16-key radios | 2000  | 2000  |

| RECEIVER   | 136-174MHZ   | 400-480 / 450-520MHZ*  |
|--|--|--|
| Sensitivity analog                               | 0.22µV (-120dBm) @ 12dB SINAD                                  | 0.22µV (-120dBm) @ 12dB SINAD                                  |
| Sensitivity digital 5% BER                       | 0.22µV (-120dBm) @ BER 5%                                      | 0.22µV (-120dBm) @ BER 5%                                      |
| Intermodulation                                  | TIA603 70dB; ETSI 65dB   | TIA603 70dB; ETSI 65dB   |
| Adjacent Channel Selectivity                     | TIA603 70dB; ETSI 65dB@25kHz<br>TIA603 60dB; ETSI 60dB@12.5kHz | TIA603 70dB; ETSI 65dB@25kHz<br>TIA603 60dB; ETSI 60dB@12.5kHz |
| Spurious Rejection TIA603                        | TIA603 75dB; ETSI 70dB   | TIA603 75dB; ETSI 70dB   |
| Conducted Spurious Emissions TIA603D, ETS300 086 | -57dBm <1GHz, -47dBm >1GHz                                     | -57dBm <1GHz, -47dBm >1GHz                                     |
| Blocking   | 84dB   | 84dB   |
| Rated Audio                                      | 750mW  | 750mW  |
| Maximum Audio                                    | 1000mW   | 1000mW   |
| Audio distortion                                 | 2% @ 500mW   | 2% @ 500mW   |
| Audio response (300-3000Hz)                      | +1 to -3dB   | -1 to -3dB   |
| Receiver hum and noise                           | -40dB@12.5kHz  | -40dB@12.5kHz  |

| TRANSMITTER                  | 136-174MHZ                   | 400-480 / 450-520MHZ*        |
|------------------------------|------------------------------|------------------------------|
| Power output - Full Power    | 5W                           | 4W                           |
| Power output - Low Power     | 1W                           | 1W                           |
| Adjacent Channel Power       | -60dB@12.5kHz<br>-70dB@25kHz | -60dB@12.5kHz<br>-70dB@25kHz |
| Conducted/Radiated Emissions | -36dBm <1GHz<br>-30dBm >1GHz | -36dBm <1GHz<br>-30dBm >1GHz |

| PHYSICAL SPECIFICATIONS                  |  |
|--|--|
| IP rating, Water Ingress                 | Designed to IP67   |
| Dimensions (DxWxH)                       |  |
| With Li-ion standard battery             | 1.34 x 2.28 x 5.00in (34 x 58 x 127mm) excluding antenna, knobs, protrusions |
| Weight                                   |  |
| With Li-ion standard battery and antenna | 11.53oz (327g)   |
| Without battery and without antenna      | 6.91oz (196g)  |
| Battery only (2000mAH)                   | 4.13oz (117g)  |

| MIL810G   | PROCEDURE | METHOD |
|-----------|-----------|--------|
| Humidity  | 507.6     | 1      |
| Vibration | 514.6     | 1      |
| Shock     | 516.6     | 1, 4   |

\*Future release

| PRODUCT FEATURES - DIGITAL | CAPABILITY  |
|----------------------------|---|
| <b>TP3300/3350</b>         |   |
| TDMA Direct Mode           | Improved channel efficiency - more users and more calls   |
| Voice Caller ID            | Indication of the calling party ID during calls   |
| Voice Annunciation         | Voice annunciation is used when changing channel or for certain other functions such as low battery warnings  |
| Stun or Revive             | A suitably equipped and authorized user can disable a radio that is stolen, lost or being mis-used. In the event it is recovered, it can be revived and used again. |
| Address Book               | Up to 256 Digital groups lists of 16 members  |
| Text Messaging             | DMR Standard IP Messaging<br>Tait Optimized Texting   |
| Encryption                 | ARC4  |
| <b>TP3350 only</b>         |   |
| GPS Location Messages      | DMR Standard GPS Messaging<br>Tait Optimized GPS Messaging  |
| Bluetooth 4.0              | Connectivity for audio, data transfer, and programming  |
| Man Down                   | Sensitive 3D accelerometer to alert dispatch of unusual tilt or inactivity  |
| Vibration Alert            | Discreet vibrations alert users to calls or text messages   |

| PRODUCT FEATURES - ANALOG | CAPABILITY   |
|---------------------------|--|
| <b>TP3300/3350</b>        |  |
| CTCSS & DCS               | Encode and Decode                                  |
| 5-Tone                    | Encode (20ms) and Decode (40ms)                    |
| 2-Tone                    | Encode and Decode                                  |
| MDC1200                   | Encode and Decode                                  |
| DTMF                      | Encode and Decode                                  |
| Voice Annunciation        | On Channel change and during other service changes |

| TYPE APPROVAL DATA        | 136-174MHZ  | 400-480MHZ  | 450-520MHZ*   |
|---------------------------|---|---|---|
| Emission designators      | FM 12.5kHz: 11K0F3E<br>FM 25kHz: 16K0F3E<br>4FSK 12.5KHz (data only):<br>7K60FXD<br>4FSK 12.5KHz (data+voice):<br>7K60FXE | FM 12.5kHz: 11K0F3E<br>FM 25kHz: 16K0F3E<br>4FSK 12.5KHz (data only):<br>7K60FXD<br>4FSK 12.5KHz (data+voice):<br>7K60FXE | FM 12.5kHz: 11K0F3E<br>FM 25kHz: 16K0F3E<br>4FSK 12.5KHz (data only):<br>7K60FXD<br>4FSK 12.5KHz (data+voice):<br>7K60FXE |
| FCC ID                    | CASTPEB1E   | CASTPEHGE   | Future release**  |
| ISED (Industry Canada) ID | 737ATPEB1E  | 737ATPEHGE  | Future release**  |

\*Future release

\*\*This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

### TAIT DMR SOLUTION

Backed by our proven radio network expertise, the TP3000 portable is part of our larger DMR offering. The Tait DMR solution consists of terminals, infrastructure, applications, services and integration with third party interfaces to ensure that your organization can reap all the benefits of the spectrally-efficient DMR standard in a mission critical environment.

Tait has taken every care in compiling this specification sheet, but we're always innovating and therefore changes to our models, designs, technical specification, visuals and other information included in this specification sheet could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website [www.taitradio.com](http://www.taitradio.com).

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This product is manufactured in an ISO9001:2015 certified manufacturing plant.

