Instant, reliable communications is just the beginning.

First responders around the world trust Tait for multi-agency coordination in the most challenging environments.

Built Tait Tough, the flexible TP9400 portables offer both analog and digital modes including P25 Phase 2, and strong encryption management capability.

Improve first responder effectiveness and safety with smart features such as Location Services*, Tait GeoFencing, and Man Down alerts.

*Not all features are supported in all models or modes of operation. Contact Tait or an authorized channel partner for more details.
FEATURES AND BENEFITS

Flexible and Easy to Use
- Clear communication with P25 AMBE+2 enhanced digital vocoder and digital noise suppression software
- Bluetooth® connectivity for wireless voice accessories
- Four programmable function keys and three-way selector
- Tailor your experience with wide range of accessory options

P25 choice and inter operability
Benefit from the spectral efficiency, multi-agency response, multi-vendor interoperability, security, migration and data capability demanded by the P25 standards
- TIA-102 P25 CAP tested and certified, providing multi-vendor interoperability
- 12.5 kHz P25 Phase 1 FDMA and 6.25 kHz equivalent P25 Phase 2 TDMA capable
- FCC and IC compliances include P25 Phase 2 emission designer (8K1OF1W)

Tait Tough – Designed for demanding environments
- Water-shedding grill maintains transmitted voice clarity and high audio volume in wet environments
- IP65 & IP68 dust and water proof
- Display screen protected by recess
- Drop test exceeds MIL-STD-810G
- Shock absorbing corner protection

Extensive Network Capabilities
- Future proof multi-mode flexibility offering analog, P25 Phase 1 conventional/trunked and P25 Phase 2 trunked
- Automatic dual mode between analog and P25 Phase 1 conventional
- Support for a variety of analog and digital simulcast modes including LSM and C4FM
- Voting ensures priority selection of the channel with optimum receive quality
- Dynamic regrouping and supergroup operation for mission critical workforce management
- Increased channel capacity with up to 2,000 channels
- Scanning modes include: priority, dual priority, in-zone, Talkgroup scanning, and background scan
- Range of analog signaling functionality, i.e. MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall
- P25 Two-Tone Paging can be used to trigger pre-programmed actions
- Trunked failsoft reverts to conventional operation during trunked network failure
- Pre-set status messages
- Conventional and trunked IP data

Personalization options
- Custom label printing tools
- Black, red, yellow, orange, and hi-visibility green color options for easy identification in the field

Improve workforce safety
- Programmable emergency key is easily accessible and highly visible
- Man Down and Lone Worker
- Integrated GNSS option for Location Services
- Tait GeoFencing option for automated location based behavior
- Intrinsically Safe options available (refer to TP9461 and TP9458/68 specifications)
- Blast Alarms and Audible Alerts on P25 conventional and Selcall Channels

Tait EnableFleet industry leading configuration management system
- Total visibility of your fleet from a secure, central point of control
- Wired connection or Over-the-air-programming (OTAP) to update configuration and software files
- OTAP via P25 trunked networks

Secure communications
- Radio inhibit and uninhibit to allow management of misplaced or stolen radios
- Supports end-to-end encryption, including AES encryption
- Compatible with Tait EnableProtect KeyFill Device, Key Management Facility, and Over the Air Rekeying
- Compatible with Tait EnableProtect Advanced System Key to ensure only authorized personnel can access radio software and configuration
### GENERAL

- **Frequency stability**: ±0.5ppm (-22°F to +140°F/ -30°C to +60°C)
- **Channels/ zones**: 1000 channels/50 zones
- **Talk groups**: 1000 talk groups, up to 1000 members total
- **Scan groups**: 900 with up to 50 members each, maximum of 2000 members total
- **Dimensions (DxWxH)**:
  - With Li-lon Slimline battery: 161 x 2.56 x 5.58 in (41 x 65 x 138mm) – excluding knobs
  - With Li-lon Performance / High Capacity battery: 177 x 2.56 x 5.58 in (45 x 65 x 138mm) – excluding knobs
- **Weight**:
  - With Li-lon Slimline battery: 11.66 oz (325g) – no antenna
  - With Li-lon Performance battery: 11.32 oz (317g) – no antenna
  - With Li-lon High Capacity battery: 13.52 oz (385g) – no antenna
- **Supported Languages**: English (default), German, French, Spanish, Portuguese, Czech, Russian, Polish, Bulgarian
- **Channel Spacing**: 12.5/15/20/25/30kHz
- **Frequency increment**: 2.5/3/12.5/5/6.25
- **Operating temperature**: -22°F to +140°F (-30°C to +60°C)
- **Water and dust protection**: IP68 & IP65
- **Audio Output (Nom)**: 1W
- **Speaker rating**: 2W
- **Signaling options (analog)**: MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall

### TRANSMITTER

<table>
<thead>
<tr>
<th>VHF</th>
<th>UHF</th>
<th>700/800MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range: 136-174MHz (B1)</td>
<td>378-470MHz (9K)</td>
<td>757-870MHz (9K)</td>
</tr>
<tr>
<td>Output power (Nom): 5W, 3W, 2W, 1W</td>
<td>4W, 2.5W, 2W, 1W</td>
<td>3W, 2.5W, 2W, 1W</td>
</tr>
<tr>
<td>Modulation limiting: 12.5/15kHz channel</td>
<td>±2.5kHz</td>
<td>±2.5kHz</td>
</tr>
<tr>
<td>25/30kHz channel</td>
<td>±4kHz</td>
<td>±4kHz</td>
</tr>
<tr>
<td>FM hum and noise: 12.5kHz channel</td>
<td>-45dB</td>
<td>-45dB</td>
</tr>
<tr>
<td>25kHz channel</td>
<td>-40dB</td>
<td>-40dB</td>
</tr>
<tr>
<td>Radiated and conducted emissions:</td>
<td>-75dBc</td>
<td>-75dBc</td>
</tr>
<tr>
<td>Audio response (analog):</td>
<td>+1/-3dB</td>
<td>+1/-3dB</td>
</tr>
<tr>
<td>Audio distortion (analog):</td>
<td>1.5% @ 1kHz, 60% deviation</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

### RECEIVER

<table>
<thead>
<tr>
<th>VHF</th>
<th>UHF</th>
<th>700/800MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range: 136-174MHz (B1)</td>
<td>378-470MHz (9K)</td>
<td>757-870MHz (9K)</td>
</tr>
<tr>
<td>Sensitivity (analog): 12dB S/N</td>
<td>0.22µV (-120dBm)</td>
<td>0.22µV (-120dBm)</td>
</tr>
<tr>
<td>Sensitivity (P25): 5% BER</td>
<td>0.22µV (-120dBm)</td>
<td>0.22µV (-120dBm)</td>
</tr>
<tr>
<td>Intermodulation rejection (P25) TIA-102</td>
<td>75dB</td>
<td>75dB</td>
</tr>
<tr>
<td>Adjacent channel rejection: 12.5kHz (P25) TIA-102</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>25kHz TIA-603 (2-tone)</td>
<td>70dB</td>
<td>70dB</td>
</tr>
<tr>
<td>Spurious response rejection (P25) TIA-102</td>
<td>75dB</td>
<td>80dB</td>
</tr>
<tr>
<td>Residual audio noise ratio (P25) TIA-102</td>
<td>45dB</td>
<td>45dB</td>
</tr>
<tr>
<td>Audio distortion (rated audio):</td>
<td>1.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td>FM hum and noise (Analogue):</td>
<td>12.5kHz channel</td>
<td>-40dB</td>
</tr>
<tr>
<td>25kHz channel</td>
<td>-45dB</td>
<td></td>
</tr>
</tbody>
</table>

1. Wideband operation is not available in the USA in some bands

---

www.taitcommunications.com
© Tait International Limited 2022. Tait_S5_TP9400_v1110
TP9400
SPECIFICATIONS

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

<table>
<thead>
<tr>
<th>Applicable MIL-STD</th>
<th>Method</th>
<th>Procedure</th>
<th>Applicable MIL-STD</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>5095</td>
<td>1</td>
</tr>
<tr>
<td>Low temperature</td>
<td>5025</td>
<td>1.2</td>
<td>Sand &amp; Dust</td>
<td>5105</td>
<td>1, 2</td>
</tr>
<tr>
<td>Temperature shock</td>
<td>5035</td>
<td>1</td>
<td>Immersion</td>
<td>5125</td>
<td>1</td>
</tr>
<tr>
<td>Solar radiation</td>
<td>5055</td>
<td>1</td>
<td>Vibration</td>
<td>5146</td>
<td>1</td>
</tr>
<tr>
<td>Rain</td>
<td>5085</td>
<td>1.3</td>
<td>Shock</td>
<td>5166</td>
<td>1, 4, 5, 6</td>
</tr>
</tbody>
</table>

BATTERY

P25 Phase 2 / TDMA Mode Shift Life (5/5/90)
- Li-ion High Capacity: 27 hours
- Li-ion Performance: 20 hours
- Li-ion Slimline: 16 hours

Analogue and P25 Phase 1 / FDMA Mode Shift Life (5/5/90)
- Li-ion High Capacity: 21 hours
- Li-ion Performance: 15 hours
- Li-ion Slimline: 12 hours

CHARGER

Charger options (Li-ion):
- Fast desktop single charger, 6-way multi charger, vehicle charger

*These chargers are not available for sale in Brazil

REGULATORY DATA

<table>
<thead>
<tr>
<th>REGULATORY DATA</th>
<th>USA (FCC)</th>
<th>CANADA (ISED)</th>
<th>EUROPE/UK (CE)</th>
<th>AUSTRALIA/New Zealand (AS/NZ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF (136-174MHz)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>UHF (378-470MHz)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ 2</td>
</tr>
<tr>
<td>UHF (450-520MHz)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ 2</td>
</tr>
<tr>
<td>700/800MHz</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programmed to meet the requirements of AS/NZS4365.

Battery performance is dependent on frequency, temperature, and operational configuration.

TAIT P25 PHASE 2 SOLUTION

Backed up by our proven radio network expertise, the TP9400 portable is part of our larger P25 Phase 2 offering. This 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 spectrum-efficient P25 standard.

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.taitcommunications.com.

For further information please check with your nearest Tait office or authorized dealer.

The words "Tait", “Tait AXIOM”, “Tait Unified”, and the “Tait” logo are trademarks of Tait International Limited.

Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (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:

Authorized Partners

www.taitcommunications.com
© Tait International Limited 2022 Tait_SS_TP9400_v1110