The L3Harris TP9600 powered by Tait, is a feature-rich portable radio delivering secure and reliable, multi-agency communications in challenging environments.

Designed for ease of use, this P25 Portable features intuitive controls and a color screen for enhanced usability. Active noise cancellation and noise suppression technologies reduce background sounds while enhancing voice transmissions, ensuring First Responders have loud and clear audio.

The TP9600 streamlines asset management with Wi-Fi® Over-The-Air-Programming capabilities, and color cover options for more efficient identification of team members. The portable is equipped with Bluetooth® wireless technology for accessory connectivity. Additional Man Down, Lone Worker and end-to-end encryption ensure emergency responders’ status is always known and communications stay secure.

This multi-mode portable eases the transition from analog technologies to more spectrally efficient digital technologies including P25 Phase 2 TDMA trunking. The TP9600 is also ruggedized to meet IP68 and IP65 standards for dust and water protection and includes a premium Li-Ion battery for up to 18 hours of shift life.

The TP9600 radios are designed to meet diverse needs of a variety of organizations. They can be field-customized with a choice of cover colors and keypad options (4 or 16-key), and can be personalized with labels for fast identification of user, workgroup and organization.
ENHANCED USER EXPERIENCE
The TP9600 is designed for easy use in emergency situations

- Large, color screen for increased clarity of messaging
- Loud, powerful 3W speaker to hear over background noise
- Dual mic active noise cancellation removes background noise in analog and digital modes
- Digital noise suppression software enhances voice
- Accessory Active Noise cancellation to enhance transmit audio clarity
- Bluetooth® connectivity for wireless voice accessories
- Ergonomic user-friendly design and easy-to-use controls
- Four programmable function keys and three-way selector
- Tailor your experience with a wide range of accessory options

P25 CHOICE AND INTEROPERABILITY
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
- P25 Phase 1 and Phase 2 options specific applications

EXTENSIVE NETWORK CAPABILITIES
- Future-ready, multi-mode radio supporting conventional analog, P25 conventional, P25 Phase 1 and P25 Phase 2
- 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, editable, zone and background scan
- Range of analog signaling functionality, i.e. MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), 5-Tone Selcall
- Trunked failsoft reverts to conventional operation during trunked network failure
- Pre-set status messages
- Conventional and trunked IP data

PERSONALIZATION OPTIONS
- Designated spaces for custom labels enables personalization and quick identification of radios
- Colored radio front panels for easy identification

IMPROVE WORKFORCE SAFETY
- Programmable emergency key is easily accessible and highly visible
- Man Down and Lone Worker
- Integrated GPS option for Location Services
- L3Harris GeoFencing option for automated location based behavior

L3HARRIS 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
- Wi-Fi OTAP® capability, independent of LMR mode (analog or digital, conventional or trunked)

SECURE COMMUNICATIONS
- Radio inhibit and uninhibit to allow management of misplaced or stolen radios
- Supports end-to-end encryption, including AES and DES algorithms
- FIPS 740-2 certified encryption module
- L3Harris EnableProtect KeyFill Device, Key Management Facility and Over-the-Air Rekeying
- L3Harris EnableProtect Advanced System Key ensures only authorized personnel can access radio software & configuration

*Not all features are supported in all models or modes of operation. Contact L3Harris or an authorized channel partner for more details.
## General Information

**Frequency Stability**
±0.5 ppm -22°F to +140°F (-30°C to +60°C)

**Channels/zones**
2,000 channels / 100 zones

**Talkgroups**
50 talk groups, up to 2,000 members total

**Scan groups**
300 with up to 50 members each, maximum of 2,000 members total

**Bluetooth®**
Supported

**Encryption (via Key-Fill Device or OTAR):**
- FIPS Certified 256-bit AES
- DES
- ARC4

**OTAP**
Supported (P25 Operation)

**Dimensions (H x W x D):**
- With Li-Ion slim-line battery: 5.71 x 2.56 x 1.61 in (145 x 65 x 41 mm) excluding knobs
- With Li-Ion standard battery: 5.71 x 2.56 x 1.77 in (145 x 65 x 45 mm) excluding knobs

**Weight:**
- With Li-Ion slim-line battery: 11.75 oz (333 g) — no antenna
- With Li-Ion standard battery: 13.02 oz (369 g) — no antenna

**Channel spacing**
6.25/12.5/15/20/25/30 kHz

**Frequency increment**
2.5/3.125/5/6.25 kHz

**Radio operating temperature**
-22°F to +140°F (-30°C to +60°C)

**Water and dust protection**
IP68 & IP65

**Audio output**
3W

**Signaling options (analog):**
- MDC1200 encode and decode
- Two Tone decode
- PL (CTCSS)
- DPL (DCS)
- 5-Tone Selcall

**Vocoder type**
AMBE+2™

### Transmitter

<table>
<thead>
<tr>
<th>Frequency bands</th>
<th>VHF</th>
<th>UHF</th>
<th>700/800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency range</strong></td>
<td>136–174 MHz (B1)</td>
<td>378–470 MHz (HK)</td>
<td>757–870 MHz (K5)</td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>5W, 3W, 2W, 1W</td>
<td>4W, 2.5W, 2W, 1W</td>
<td>3W, 2.5W, 2W, 1W</td>
</tr>
<tr>
<td><strong>Modulation limiting:</strong> 12.5/15 kHz channel 25/30 kHz channel</td>
<td>±2.5 kHz ±5 kHz</td>
<td>±2.5 kHz ±5 kHz</td>
<td>±2.5 kHz ±5 kHz</td>
</tr>
<tr>
<td><strong>FM hum and noise:</strong> 12.5 kHz channel 25 kHz channel</td>
<td>-45 dB -48 dB</td>
<td>-45dB -48dB</td>
<td>-45 dB -48 dB</td>
</tr>
<tr>
<td><strong>Radiated and conducted emissions</strong></td>
<td>-75 dBc</td>
<td>-72 dBc</td>
<td>-75 dBc</td>
</tr>
<tr>
<td><strong>Audio response (analog)</strong></td>
<td>1/%-3 dB</td>
<td>1/-3 dB</td>
<td>1/-3 dB</td>
</tr>
<tr>
<td><strong>Audio distortion (analog @ 1 kHz, 60% mod)</strong></td>
<td>2%</td>
<td>2%</td>
<td>2%</td>
</tr>
</tbody>
</table>

### Receiver*

<table>
<thead>
<tr>
<th>Frequency bands</th>
<th>VHF</th>
<th>UHF</th>
<th>700/800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency range</strong></td>
<td>136–174 MHz (B1)</td>
<td>378–470 MHz (HK)</td>
<td>757–776 MHz, 850–870 MHz (K5)</td>
</tr>
<tr>
<td><strong>Sensitivity (analog)</strong></td>
<td>0.22 uV (-120 dBm)</td>
<td>0.22 uV (-120 dBm)</td>
<td>0.22 uV (-120 dBm)</td>
</tr>
<tr>
<td><strong>Sensitivity (P25)</strong> 5% BER</td>
<td>0.2 uV (-121 dBm)</td>
<td>0.2 uV (-121 dBm)</td>
<td>0.2 uV (-121 dBm)</td>
</tr>
<tr>
<td><strong>Intermodulation rejection (P25) TIA-102</strong></td>
<td>75 dB</td>
<td>75 dB</td>
<td>75 dB</td>
</tr>
<tr>
<td><strong>Adjacent channel rejection:</strong> 12.5 kHz (P25) TIA-102 25 kHz TIA-603 (2-tone)</td>
<td>60 dB 70 dB</td>
<td>60 dB 70 dB</td>
<td>60 dB 65 dB</td>
</tr>
<tr>
<td><strong>Spurious response rejection (P25) TIA-102</strong></td>
<td>75 dB</td>
<td>80 dB</td>
<td>70 dB</td>
</tr>
<tr>
<td><strong>Residual audio noise ratio (P25) TIA-102</strong></td>
<td>45 dB</td>
<td>45 dB</td>
<td>45 dB</td>
</tr>
<tr>
<td><strong>Audio distortion (rated audio)</strong></td>
<td>1.5%</td>
<td>1.5%</td>
<td>1.5%</td>
</tr>
<tr>
<td><strong>FM hum and noise (analog)</strong></td>
<td>-45 dB -48 dB</td>
<td>-40 dB -45 dB</td>
<td>-40 dB -45 dB</td>
</tr>
</tbody>
</table>

*Rated audio (for performance testing) 0.5W
**Contact L3Harris for information on Wi-Fi OTAP
**SPECIFICATIONS FOR: TP9600 P25 PORTABLE RADIO**

### MILITARY STANDARDS 810G

<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>500.5</td>
<td>2</td>
<td>Humidity</td>
<td>507.5</td>
<td>2</td>
</tr>
<tr>
<td>High temperature</td>
<td>501.5</td>
<td>1, 2</td>
<td>Salt fog</td>
<td>509.5</td>
<td>1</td>
</tr>
<tr>
<td>Low temperature</td>
<td>502.5</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>Immersion</td>
<td>512.5</td>
<td>1</td>
</tr>
<tr>
<td>Solar radiation</td>
<td>505.5</td>
<td>1</td>
<td>Vibration</td>
<td>514.6</td>
<td>1</td>
</tr>
<tr>
<td>Rain</td>
<td>506.5</td>
<td>1, 3</td>
<td>Shock</td>
<td>516.6</td>
<td>1, 4, 5, 6</td>
</tr>
</tbody>
</table>

### BATTERY

**P25 Phase2/TDMA Mode Shift Life (5/5/90):**
- Li-Ion Performance
- Li-Ion Slimline
  - 18 hours
  - 14 hours

**Analog and P25 Phase 1/FDMA Mode Shift Life (5/5/90):**
- Li-Ion Performance
- Li-Ion Slimline
  - 14 hours
  - 11 hours

### REGULATORY DATA

<table>
<thead>
<tr>
<th></th>
<th>USA</th>
<th>Canada</th>
<th>Europe</th>
<th>Australia/New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHF (450–520 MHz)</td>
<td>CFR 47</td>
<td>RSS-119</td>
<td>201/53/EU</td>
<td>AS/NZS4295 AS/NZS4365</td>
</tr>
<tr>
<td>700/800 MHz</td>
<td>CFR 47</td>
<td>RSS-119</td>
<td>NA</td>
<td>AS/NZS4295 AS/NZS4365</td>
</tr>
</tbody>
</table>

**Emission designators:**
- 11KOF3E, 16KOF3E, 6K60F2D, 7K80F2D, 9K60F2D, 10K8F2D, 7K60FXW, 8K10F1E, 8K10F1D, 8K10F1W

1. Wideband operation is not available in the USA in some bands
2. Operational shift life is dependent on model, frequency, temperature and use. Rated audio for shift-life testing is 0.5W
3. Intended compliance data

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Technical specifications are subject to change without notice.
Product sales are subject to applicable U.S. export control laws.

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