Delivering outstanding performance in a compact form factor without sacrificing the features you need most. The APX™ 6000 is the next generation of ruggedly-reliable performers that gives you the advanced features such as Mission Critical Wireless and GPS location tracking in a small, P25 Phase 2 capable radio. Whether you’re on patrol or racing to a fire, the APX 6000 puts you in greater control of your safety, response time and technology investment.

Focus on the task not the technology, with the real-world ready radio that turns mission critical into mission complete.

**CUTTING-EDGE FEATURES IN A COMPACT SIZE**
- Innovative T-grip design gives you a secure grip and better control
- High-contrast color display is easy to read in different lighting conditions
- Top display is quick to read while looking down, at a glance or from an angle
- Universal push-to-talk button with enhanced grooves is easy to find by “touch”

**EXCELLENT AUDIO YOU CAN HEAR LOUD AND CLEAR**
- Excellent audio ensures voice communications are intelligible, even in high noise environments
- Dual sided 2 microphone noise canceling technology
- Equipped with the latest AMBE digital voice vocoder

**FUTURE-READY TECHNOLOGY TO RELY ON TODAY**
- Small P25 Phase 2 capable radio that provides twice the voice capacity
- Backwards and forwards compatible with all Motorola mission critical radio systems
- Supports applications like Mission Critical Wireless and GPS location tracking for greater safety

**Channel Capacity:**
- 96 standard (model 1.5)
- 870 standard (model 2.5 & 3.5)
- 1250 max
- Universal Push-to-Talk
- T-Grip
- Dual Battery Latch
- Orange emergency button
- 16 position rotary switch
- 2 position concentric switch
- 3 position toggle switch
- 3 programmable side buttons
- Transmit LED indicator
- Backlit Keypad:
  - Home and Data buttons
  - 3 soft keys
  - 4 direction navigation key
  - 4 x 3 keypad
- Full Bitmap Display:
  - 2 lines of icons
  - 4 lines x 14 characters of text
  - Status icons
**FEATURES AND BENEFITS:**
Available in 700/800 MHz, VHF, UHF R1, and UHF R2 bands
Trunking standards supported:
- Clear or digital encrypted ASTRO®25 Trunked Operation
- Capable of SmartZone®, SmartZone Omnirink, SmartNet®
- Analog MDC-1200 and Digital APCO P25 Conventional System Configurations
Narrow and wide bandwidth digital receiver (6.25 kHz equivalent / 12.5 kHz / 20 kHz / 25 kHz)
Embedded digital signaling (ASTRO & ASTRO 25)
Available in 3 models
Integrated GPS capable
Intelligent Lighting
Radio Profiles
Unified Call List (Models 2.5 and 3.5 only)
User programmable voice announcement
Meets Applicable MIL-STD-810C, D, E, F and G
IP67 option available (submersible 1 meter, 30 minutes)*
Yellow and green colored housing options
Custom recess label areas

**BATTERIES FOR APX 6000**

<table>
<thead>
<tr>
<th>Battery Capacity / Type</th>
<th>Dimensions (HxWxD)</th>
<th>Weight</th>
<th>Battery Part Number</th>
<th>Battery Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li-Ion IMPRES 2150 mAh IP67**</td>
<td>3.39&quot; x 2.34&quot; x 1.46&quot;</td>
<td>5 oz</td>
<td>PMNN4403</td>
<td>2150 mAh</td>
</tr>
<tr>
<td>Li-Ion IMPRES 2900 mAh IP67</td>
<td>3.07&quot; x 2.34&quot; x 1.65&quot;</td>
<td>6.53 oz</td>
<td>NNTN7038</td>
<td>2900 mAh</td>
</tr>
<tr>
<td>Li-Ion IMPRES 4200 mAh IP67</td>
<td>5.07&quot; x 2.34&quot; x 1.65&quot;</td>
<td>11.29 oz</td>
<td>NNTN7034</td>
<td>4200 mAh</td>
</tr>
<tr>
<td>Li-Ion IMPRES 4100 mAh FM® IP67</td>
<td>5.07&quot; x 2.34&quot; x 1.65&quot;</td>
<td>11.29 oz</td>
<td>NNTN7033</td>
<td>4100 mAh</td>
</tr>
<tr>
<td>Ni-MH IMPRES 2100 mAh IP67</td>
<td>5.12&quot; x 2.34&quot; x 1.57&quot;</td>
<td>11.82 oz</td>
<td>NNTN7037</td>
<td>2100 mAh</td>
</tr>
<tr>
<td>Ni-MH IMPRES 2000 mAh FM® IP67</td>
<td>5.12&quot; x 2.34&quot; x 1.57&quot;</td>
<td>11.82 oz</td>
<td>NNTN7036</td>
<td>2000 mAh</td>
</tr>
<tr>
<td>Ni-MH IMPRES 2000 mAh FM® Rugged</td>
<td>5.12&quot; x 2.34&quot; x 1.57&quot;</td>
<td>11.82 oz</td>
<td>NNTN7035</td>
<td>2000 mAh</td>
</tr>
<tr>
<td>Ni-MH IMPRES 2100 mAh Rugged</td>
<td>5.12&quot; x 2.34&quot; x 1.57&quot;</td>
<td>11.82 oz</td>
<td>NNTN7573</td>
<td>2100 mAh</td>
</tr>
<tr>
<td>Li-Ion IMPRES 2300 mAh FM® Rugged</td>
<td>3.39&quot; x 2.34&quot; x 1.65&quot;</td>
<td>6.53 oz</td>
<td>NNTN8092</td>
<td>2300 mAh</td>
</tr>
</tbody>
</table>

* Radios meet industry standards (IPX7) for immersion.
## RADIO MODELS

<table>
<thead>
<tr>
<th>MODEL 1.5</th>
<th>MODEL 2.5</th>
<th>MODEL 3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>Top display plus:</td>
<td>Top display plus:</td>
</tr>
<tr>
<td></td>
<td>Full bitmap monochromatic LCD top display</td>
<td>Full bitmap color LCD display</td>
</tr>
<tr>
<td></td>
<td>1 line text x 8 characters</td>
<td>4 lines of text x 14 characters</td>
</tr>
<tr>
<td></td>
<td>1 line of icons</td>
<td>2 lines of icons</td>
</tr>
<tr>
<td></td>
<td>No menu support</td>
<td>1 menu line x 3 menus</td>
</tr>
<tr>
<td></td>
<td>Multi-color backlight</td>
<td>White backlight</td>
</tr>
<tr>
<td>Keypad</td>
<td>none</td>
<td>Backlight keypad</td>
</tr>
<tr>
<td></td>
<td>3 soft keys</td>
<td>3 soft keys</td>
</tr>
<tr>
<td></td>
<td>4 direction Navigation key</td>
<td>4 direction navigation key</td>
</tr>
<tr>
<td></td>
<td>Home and Data buttons</td>
<td>Home and Data buttons</td>
</tr>
</tbody>
</table>

**Channel Capacity**
- MODEL 1.5: 96
- MODEL 2.5, 3.5: 870

**FLASHport Memory**
- MODEL 1.5: 64 MB
- MODEL 2.5, 3.5: 870 MB

**700/800 MHz (763-870 MHz)**
- H98UCD9PW5AN/Q360CY/Q360EF
- H98UCF9PW6AN/Q360CY/Q360EF
- H98UCH9PW7AN/Q360CY/Q360EF

**VHF (136-174 MHz)**
- H98KG9PW5AN/Q360DD/Q360EG
- H98KG9PW6AN/Q360DD/Q360EG
- H98KG9PW7AN/Q360DD/Q360EG

**UHF Range 1 (380-470 MHz)**
- H98DD9PW5AN/Q360DA/Q360EH
- H98DD9PW6AN/Q360DA/Q360EH
- H98DD9PW7AN/Q360DA/Q360EH

**UHF Range 2 (450-520 MHz)**
- H98SD9PW5AN/Q360DW/Q360FC
- H98SD9PW6AN/Q360DW/Q360FC
- H98SD9PW7AN/Q360DW/Q360FC

### TRANSMITTER CERTIFICATION

#### 700/800 (764-869 MHz)
- AZ489FT5859/AZ489FT5863*

#### VHF (136-174 MHz)
- AZ489FT3824/AZ489FT3829*

#### UHF Range 1 (380-470 MHz)
- AZ489FT4899/AZ489FT4903*

#### UHF Range 2 (450-520 MHz)
- AZ489FT4858/AZ489FT4903*

### FCC EMISSIONS DESIGNATORS

- FCC Emissions Designators: 11K0F3E, 16K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 20K0F1E

### POWER SUPPLY

- Power Supply: One rechargeable 2150 mAh Li-Ion Battery Standard (PMNN4403), with alternate battery options available.

*Full featured model with Bluetooth® capability

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## RECEIVER - TYPICAL PERFORMANCE SPECIFICATIONS

### 700/800 MHz
<table>
<thead>
<tr>
<th>Frequency Range/Bandsplits</th>
<th>Channel Spacing</th>
<th>Maximum Frequency Separation</th>
<th>Audio Output Power at Rated&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Frequency Stability&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Analog Sensitivity&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Digital Sensitivity&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Selectivity&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Intermodulation</th>
<th>Spurious Rejection</th>
<th>FM Hum and Noise</th>
<th>Audio Distortion&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 MHz</td>
<td>12.5/25 kHz</td>
<td>Full Bandsplit</td>
<td>500mW</td>
<td>±0.00010 %</td>
<td>0.250 μV</td>
<td>0.347 μV (0.333 μV)</td>
<td>75.7 dB</td>
<td>80 dB</td>
<td>76.6 dB</td>
<td>54 dB</td>
<td>.9 %</td>
</tr>
<tr>
<td>800 MHz</td>
<td>25/20/12.5 kHz</td>
<td>Full Bandsplit</td>
<td>500mW</td>
<td>±0.00010 %</td>
<td>0.216 μV</td>
<td>0.277 μV (0.307 μV)</td>
<td>73.3 dB</td>
<td>80.5 dB</td>
<td>93.2 dB</td>
<td>-54 dB</td>
<td>1.20 %</td>
</tr>
<tr>
<td></td>
<td>25/20/12.5 kHz</td>
<td>Full Bandsplit</td>
<td>500mW</td>
<td>±0.00010 %</td>
<td>0.234 μV</td>
<td>0.207 μV (0.207 μV)</td>
<td>78.3 dB</td>
<td>80.2 dB</td>
<td>80.3 dB</td>
<td>-53.5 dB</td>
<td>0.91 %</td>
</tr>
</tbody>
</table>

*Full featured model with Bluetooth® capability
PORTABLE MILITARY STANDARDS 810 C, D, E, F & G

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
<td>Proc./Cat.</td>
<td>Method</td>
<td>Proc./Cat.</td>
<td>Method</td>
</tr>
<tr>
<td>Low Pressure</td>
<td>I, II</td>
<td>I, II</td>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td>High Temperature</td>
<td>I, II</td>
<td>I, II</td>
<td>I/A1, II/A1</td>
<td>I/A1, II/A1</td>
</tr>
<tr>
<td>Low Temperature</td>
<td>I, II</td>
<td>I, II</td>
<td>I/C3, II/C1</td>
<td>I/C3, II/C1</td>
</tr>
<tr>
<td>Temperature Shock</td>
<td>I</td>
<td>I/A1/C3</td>
<td>I/A1C3</td>
<td>I</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>I, II</td>
<td>I</td>
<td>505.3</td>
<td>I</td>
</tr>
<tr>
<td>Rain</td>
<td>I, II</td>
<td>I, II</td>
<td>506.3</td>
<td>I, II</td>
</tr>
<tr>
<td>Humidity</td>
<td>I, II</td>
<td>I</td>
<td>507.3</td>
<td>II</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>I, II</td>
<td>I</td>
<td>509.3</td>
<td>I</td>
</tr>
<tr>
<td>Blowing Dust</td>
<td>I, II</td>
<td>I</td>
<td>510.3</td>
<td>I</td>
</tr>
<tr>
<td>Blowing Sand</td>
<td>I, III, V</td>
<td>I, VI</td>
<td>516.4</td>
<td>I, V, VI</td>
</tr>
<tr>
<td>Immersion</td>
<td>I, II</td>
<td>I</td>
<td>512.3</td>
<td>I</td>
</tr>
<tr>
<td>Vibration</td>
<td>VIII/F, Curve-W</td>
<td>I/10, II/3</td>
<td>I/10, II/3</td>
<td>I/10, II/3</td>
</tr>
<tr>
<td>Shock</td>
<td>I, III, V</td>
<td>I, VI</td>
<td>516.4</td>
<td>I, V, VI</td>
</tr>
<tr>
<td>Shock (Drop)</td>
<td>I, II</td>
<td>IV</td>
<td>516.4</td>
<td>IV</td>
</tr>
</tbody>
</table>

DIMENSIONS OF THE RADIOS WITHOUT BATTERY

<table>
<thead>
<tr>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>5.47</td>
</tr>
<tr>
<td>Width</td>
<td>2.39</td>
</tr>
<tr>
<td>Depth</td>
<td>1.40</td>
</tr>
<tr>
<td>Width</td>
<td>2.98</td>
</tr>
<tr>
<td>Depth</td>
<td>1.58</td>
</tr>
<tr>
<td>Weight</td>
<td>10.9 oz</td>
</tr>
</tbody>
</table>

ENCRYPTION

- Supported Encryption Algorithms: ADP, AES, DES, DES-XL, DES-OFB, DVP-XL
- Encryption Keys per Radio: Module capable of storing 1024 keys. Programmable for 64 Common Key Reference (CKR) or 16 Physical Identifier (PID)
- Encryption Frame Re-sync Interval: P25 CAI 300 mSec
- Encryption Keying: Key Loader
- Synchronization: XL – Counter Addressing OFB – Output Feedback
- Vector Generator: National Institute of Standards and Technology (NIST) approved random number generator
- Encryption Type: Digital
- Key Storage: Tamper protected volatile or non-volatile memory
- Key Erasure: Keyboard command and tamper detection
- Standards: FIPS 140-2 Level 3, FIPS 197

GPS SPECIFICATIONS

- Channels: 12
- Tracking Sensitivity: <159 dBm
- Accuracy: <10 meters (95%)
- Cold Start: <60 seconds (95%)
- Hot Start: <10 seconds (95%)
- Mode of Operation: Autonomous (Non-Assisted) GPS

RUGGED OPTION SPECIFICATIONS

- Housing Availability: Black (Standard), Public Safety Yellow and High Impact Green

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -30°C / +60°C
- Storage Temperature: -40°C / +85°C
- Humidity: Per MIL-STD
- ESD: IEC 801-2 KV
- Water and Dust Intrusion: IP67, MIL-STD
- Immersion: MIL-STD 512.X/I

Motorola Solutions, Inc. 1301 East Algonquin Road Schaumburg, Illinois 60196, U.S.A. 800-367-2346
motorolasolutions.com

1 Measured in the analog mode per TIA / EIA 603 under nominal conditions
2 Measured in the analog mode per TIA / EIA 604 under nominal conditions
3 Measured in the analog mode per TIA / EIA 604 under nominal conditions
4 Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at a nominal –130 dBm signal strength)
5 Specifications subject to change without notice. All specifications shown are typical.

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