

# APX™ 7500 MULTIBAND MOBILE RADIOS

## SAFETY REDEFINED





# MEET THE APX™ 7500 MOBILE: SEAMLESS INTEROPERABILITY. FLAWLESS PERFORMANCE.

No other mission critical communication tool keeps you safer on the move than an APX mobile radio. During a high-speed chase or lifesaving helicopter rescue, instant and uninterrupted communication is priority one. You need to speak above the blast of sirens, the blare of engines, the howl of weather and the rush of traffic.

You expect a reliable radio with crystal clear communication wherever the mission takes you. You depend upon every word being heard and every message being understood, even in heavy noise environments. And you count on controls that are easy to locate and operate when situations get stressful.



## WHEN MOMENTS COUNT, YOUR MOBILE MATTERS.

When every moment matters, your personnel must be able to communicate with one another—no matter which federal, state or local agencies are involved. As national security tightens and preparedness heightens, what is the right technology to achieve interoperability and mount a swift and effective joint response?

The APX 7500 delivers seamless multiband interoperability through any two bands (700/800, VHF, UHF R1, UHF R2). Now your agency can purchase one radio for instant multiband communication and streamline the expense of maintaining, installing and operating multiple mobile radios.

Every APX 7500 radio is backward and forward compatible, designed to meet current P25 standards and future ready to support new technology and data applications. That means you can achieve your interoperability objectives—whether upgrading an existing system or designing a new one—at your own pace.

## COMMUNICATE WITH AGILITY, NO MATTER THE AGENCY.

A U.S. Customs and Border agent coordinating investigations with a nearby state. The National Guard responding to a multi-agency request. A metro fire commander launching a search and rescue. All these situations require instant interoperability, seamless integration and mission critical voice and data to effectively and efficiently respond. And the APX 7500 delivers.

Our ultra-reliable mobiles perform across multiple digital and analog networks—from SmartNet® and SmartZone® to ASTRO® 25—to provide the highest level of interoperability possible. And when multiband operation is called for, the APX 7500 handles it seamlessly and skillfully through any two frequency bands.

## FUTURE-READY TECHNOLOGY FOR TWICE THE CAPACITY.

Not only are APX 7500 radios compatible with our ASTRO Project 25 standards-based system, they support both P25 Phase 1 and Phase 2 technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios switch between FDMA and TDMA without having to change channels. And since TDMA will be part of P25 Phase 2 requirements, providing twice the voice capacity, you can add more users without adding new frequencies or infrastructure.

A person in a dark uniform with a yellow and blue patch on the sleeve is shown in profile, driving a vehicle. They are holding a black Motorola APX 7500 mobile radio to their mouth. The background shows the interior of a vehicle with a steering wheel and a dashboard. A white text box is overlaid on the right side of the image.

**GIVE US YOUR COMMUNICATION CHALLENGE.**

## **SEE HOW APX 7500 ANSWERS THE CALL.**

### **AGENCIES DEMAND INSTANT INTEROPERABILITY.**

Whether it's a covert operation or military response, federal, state and local agencies often operate on different frequency bands—requiring personnel to operate two radios in order to communicate.

#### **THE APX 7500 DELIVERS.**

Our premier multiband mobile radio operates in any of two bands (700 MHz, 800 MHz, VHF, UHF R1, UHF R2) for instant, interoperable communication that streamlines coordination, speeds response and improves safety.

### **AGENCIES DEMAND EASY INSTALLATION.**

If you're a public safety officer on patrol or a federal officer on a stake-out, your vehicle has little room for communications equipment. You need installation space and easy access to your radio.

#### **THE APX 7500 DELIVERS.**

We designed the APX 7500 mobile to fit into the existing install space of the XTL radios for easier use, installation and removal. The mid and high-power mobiles let you reuse existing mounting holes and cables. And a new high-power trunion design secures the radio and makes installing easy—so you can remove the radio without removing the cables.

### **AGENCIES DEMAND FUTURE EXPANDABILITY.**

Whether you're running a municipal police department or a sprawling federal agency, you want to protect your current investment in mission critical radios and ensure new radio purchases can be updated to utilize the latest advances in technology.

#### **THE APX 7500 DELIVERS.**

Backward and forward compatible, the APX 7500 works on all Motorola ASTRO 25 systems and will work as you migrate to future technology. An expansion slot enables you to add future data applications.



# THIS PERFORMER PROVES ITSELF EACH TIME YOU TURN IT ON.



## ADVANCED SOFTWARE FEATURES

### Intelligent Lighting

Uses color alerts to notify you of the radio mode, potential emergencies and specific events.

### Radio Profiles

Configure radios to adjust audio level, lighting and tones through user-selected or automated options. Whether on surveillance or working in bright sunlight, you can customize settings as needed.

### Text Messaging

Offers a free form or canned messaging solution so you can efficiently and discreetly send and receive messages to and from subscribers or dispatch operators.

### Unified Call List

Consolidates all call lists to make all information about a particular contact easily accessible.

### Voice Announcement

Navigate through channels/talkgroups and zones while an audible, pre-recorded voice file provides a description of the selected channel or zone.

## ADVANCED HARDWARE FEATURES

### P25 Phase 2 Capable

Provides twice the voice capacity so you can add more users to your system without adding frequencies or infrastructure.

### GPS Location

With its integrated GPS receiver, the outdoor location of a vehicle can be transmitted to map-based location software.

### Multiband Operation

Multiple frequency bands supported with best-in-class transceiver specifications and performance.

### Seamless Scan

Scan multiple protocols, including FDMA and TDMA systems and multiple RF bands.

### Encryption

Equipped with FIPS certified encryption hardware for secure communications.

## FUTURE READY

### Expansion Slot

Add option cards and data applications to upgrade to the latest functionality.

### Memory

Expandable memory slot lets you store future data applications. Increased memory is available as your technology needs grow.

### Programming Over Project 25 (POP25)

POP 25 solution lets you program subscriber radios over the air via the ASTRO25 system, while in the field, without interrupting voice operations.



# FLEXIBLE INNOVATIONS FOR THE WAY YOU WORK.

## APX 7500 MID-POWER INSTALLATION

Mounted remotely or in dash, fits into an existing XTL footprint so you can reuse mounting holes and cables for easy installation.

## APX 7500 HIGH-POWER INSTALLATION

Mounted remotely, the simplified trunion design lets you remove the radio without having to disconnect the cables.

## RFID

12-character RFID asset tracking provides a fast, accurate and convenient way to obtain valuable information without having to uninstall the radio.



## INTEGRATE YOUR CONTROLS INTO YOUR VEHICLE



### O9 INTEGRATED CONTROL HEAD

- Extra-large full color display with intelligent lighting
- 12-button keypad
- Dedicated siren controls
- Large programmable one-touch buttons
- Night/day mode button



### O5 CONTROL HEAD

- Tri-color display with intelligent lighting
- Four-line/14 character/one icon customizable alphanumeric display
- Five programmable soft key buttons and five scroll-through menus, with up to 24 programmable soft keys
- Multiple control head configuration, with up to four different wired locations
- Motorcycle configuration available



### O3 CONTROL HEAD

- Large color display with intelligent lighting
- Four-line/14 character/two icons alphanumeric display
- 3 x 6 keypad with up to 24 programmable soft keys
- Two quick-access side buttons
- Hand-held control head with intuitive user interface

# COORDINATE A STRONGER RESPONSE WITH A SAFER RESPONDER.

## WHY APX 7500?

Our APX mobile radios deliver exceptional performance by combining advanced voice and data technology with our legendary quality. Their innovative, rugged design and safety-focused functionality is based on extensive input from users around the world. This along with our breakthrough engineering brings you the best two-way radios in the field.

### Interoperability On Demand

APX 7500 operates in multiple bands and meets P25 public safety specifications for seamless multiagency collaboration.

### 2-In-1 Radio

APX 7500 operates in any 2 frequency bands (700/800, VHF, UHF R1 and UHF R2) and acts as two radios in one. We've reduced the amount of equipment service shops must install and maintain.

### No Compromises Design

The APX mobile radio is designed to maintain the same mounting footprints as the XTL. The high-power trunion was completely redesigned for ease of installation, providing installation guides and rails, better engagement into the tray and enhanced handle grip.

### Rugged Durability

The APX 7500 mobile radio meets IP55 water-intrusion ratings for driving rain. This gives you the added confidence that your mobile will continue performing, even when exposed to water.

### Future-Ready Investment

APX is backward and forward compatible with Motorola SmartNet, SmartZone and ASTRO 25 systems and offers future expandability for developing technologies.

### Standards

APX 7500 supports P25 Phase 1 and is upgradable to support P25 Phase 2 to offer better spectrum utilization and double voice capacity using existing frequencies.

### Data Capability

The APX 7500 is Integrated Voice and Data ready. With the ability to send and receive data through your trunking or conventional system infrastructure, APX is ideal for text messaging and can be used as a modem. Programming over Project 25 (POP25) allows the radio configuration to be accessed and updated over the air. APX also comes equipped with an integrated GPS receiver for outdoor location tracking.

### FLASHport™ Software

The APX 7500 has built-in FLASHport capability to support customizing the radio with new software.

### Customer Programming Software

Our APX radios utilize new and enhanced CPS software that is user friendly and increases speed and efficiency. The built-in codeplug comparator makes it easy to diagnose codeplug differences. The customizable views feature allows users to see only the codeplug fields that interest them. An undo/redo function makes changes easy.

### Motorola Services

We stand beside customers at every stage in the system life cycle—including repair and maintenance from over 500 service facilities in 28 countries and depot facilities dedicated solely for federal agencies.



# TURN UP SAFETY AND EASE OF USE WITH APX ACCESSORIES.

Whether you're riding your motorcycle or a military truck, speaking from a squad car or a station desk, you need to know that every word is communicated and every message is heard. Our leading-edge accessories were designed to be an integral part of our APX mission critical radios—engineered for exceptional performance and outstanding audio clarity.

Every APX accessory is carefully designed and tested to provide the same high level of performance as your radio. For example, IMPRES™ visor microphones are uniquely engineered to reduce background noise so you can communicate effectively on the road. And many accessories from our XTL radios that utilize O5 and O3 control heads can be reused—maximizing your investment while you benefit from the latest technology.

## AUDIO ACCESSORIES

### Keypad Microphone

Access critical features directly from the microphone. A full keypad lets users dial phone numbers and send text messages, while the navigational buttons allow users to navigate through radio menus. Also includes three programmable buttons for additional customization.

### IMPRES Visor Microphone

Using leading-edge IMPRES technology, our audio accessories communicate with the radio to help suppress ambient noise, improve voice intelligibility and amplify loudness—even in noisy situations. The IMPRES visor microphone reduces common background road noise so an officer can communicate effectively in the vehicle.

### Desktop Microphone and Tray

These convenient accessories allow mission critical users to convert APX mobiles into simple base stations—an ideal solution for dispatch and transportation. Desktop tray and microphone sold separately.

## ANTENNA

### GPS Antenna

A separate GPS antenna is required in addition to the mobile RF antenna for GPS capability. This fixed-mount antenna is a discreet standalone that has a semi-permanent mount you can easily assemble with minimal tools to the vehicle's roof or trunk.



Keypad Microphone



IMPRES Visor Microphone



Desktop Microphone and Tray



GPS Antenna



# APX 7500 MOBILE RADIOS. SAFETY REDEFINED.

## VISIT APX ONLINE. GET COMPLETE SPECS. SEE 360 DEGREE VIEWS.

Go online to [motorola.com/apx](http://motorola.com/apx) for more information about the APX 7500 Multiband Mobile Radio.

- Interactive 360-degree views
- Complete hardware specs, including performance characteristics, physical characteristics and radio features
- Complete list and photos of accessories
- Downloadable product brochures and specification sheets
- Downloadable white papers

[motorola.com/apx](http://motorola.com/apx)

## TECHNOLOGY THAT'S SECOND NATURE™

At the heart of every mission is the ability to communicate in an instant to coordinate response and protect lives.

Today, Motorola is putting real-time information in the hands of mission critical users to provide better outcomes. Our powerful combination of next generation technologies are transforming public safety operations by strengthening the mission critical core with broadband connections, rich-media applications, collaborative devices and robust services.

IT'S TECHNOLOGY THAT'S SECOND NATURE.

TO FIND OUT MORE, VISIT [MOTOROLA.COM/NEXTGEN](http://MOTOROLA.COM/NEXTGEN).

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