APX NEXT XE
All-band P25 smart radio

Focused in the extreme

MOTOROLA SOLUTIONS

Focused
in the extreme.

The demands of a call require you to adapt and overcome all obstacles. When your focus on the call is threatened, lives are threatened, your crew may be threatened.

APX NEXT® XE protects your focus when it matters most.

En Route
My Status

East Zone
TAC 1

Zone | Contacts | More

Miller, David
Arriving to staging on Kedzie Ave.

New Message | All Messages

Night Mode | Brightness | Settings

11:30

The focus that keeps firefighters safe and effective in extreme environments, is protected.

Mission-critical performance and best-in-class audio ensure your lifeline is there when you need it. A rugged design, purpose built for extreme environments. Exaggerated controls make it easy to operate with or without gloves. Natural interfaces - from touchscreens to voice controls - keep your focus where it matters, when it matters. Ultra-connectivity gives you public safety LTE, Bluetooth, and Wi-Fi. And new applications and services, SmartConnect and ViQi, bring new intelligence to the field.

APX NEXT XE reduces configuration time and update cycles from months to minutes. Radios can be provisioned and updated in the cloud, and new capabilities—like video, data analytics, and AI applications—can be added as your needs evolve.

APX NEXT XE brings usability and performance advancements to every aspect of the radio experience. Interfaces are streamlined. Workflows are accelerated. Mission-critical reliability is ensured. And the focus that keeps firefighters safe and effective in extreme environments, is protected.

Advanced mission-critical voice and data. Rooted in safety

In high-stress and extreme situations, efficient team communication can help make the difference between life and death. Your radio is your lifeline.

APX NEXT XE is our next step in advancing it. A radio that works when you need it, without distraction or doubt.

Protected by toughened glass, the touchscreen works in the hottest, wettest and grittiest conditions.

Built ultra-rugged, inside and out

Living up to the renowned ruggedness of APX radios, APX NEXT XE protects your lifeline with uncompromising durability. Designed to military standards for extreme ruggedness and UL Div 2 HazLoc certification. It passes the most extreme ruggedness tests including a 4ft. drop to concrete on all faces, edges and corners, a 4.6oz steel ball drop from 20in directly onto the display, and operating temperature of -22F to +140F.

Built with ultra strong materials for high durability and superb impact resilience, inside and out. Its modular structural support system provides excellent shock absorption, further protecting the display and internal components. Protected by toughened glass, the touchscreen works in the hottest, wettest and grittiest conditions, and is resistant to false actuation by water, snow, ice or debris.

So wherever you need to go—into a hurricane, a structure fire, even a sandstorm—so can APX NEXT XE.

Extended battery life

Your battery can't quit. Our highest energy density technology packs the most talk time in the smallest battery package. With up to 18 hours of talk time, you can power through back-to-back calls throughout your shift.

Even in stressful situations that lead to shouting, your firefighters will transmit more intelligible speech.

Clearly better audio

APX NEXT XE builds on the class-leading APX audio technology with advanced audio performance and sophisticated noise-reduction techniques, fortifying the most important thread of your lifeline: ultra-clear voice communications. No matter where you are or how you speak, you can be confident that you'll hear and be heard clearly.

High dynamic range microphones

APX NEXT XE features two High Dynamic Range (HDR) microphones, which improve intelligibility with extremely loud and soft inputs, and reduce noise and distortion across the range. The XVE500 RSM goes even further, with four HDR microphones and a larger loudspeaker that increases the clarity of the audio while maintaining superior loudness output. Even in stressful situations that lead to shouting, your firefighters will transmit more intelligible speech.

Automatic receive volume leveling

Set the radio volume once. Automatic Receive Volume Leveling ensures radio communications are heard at similar loudness, so there's no need to constantly adjust the volume between loud and soft talkers throughout your shift.
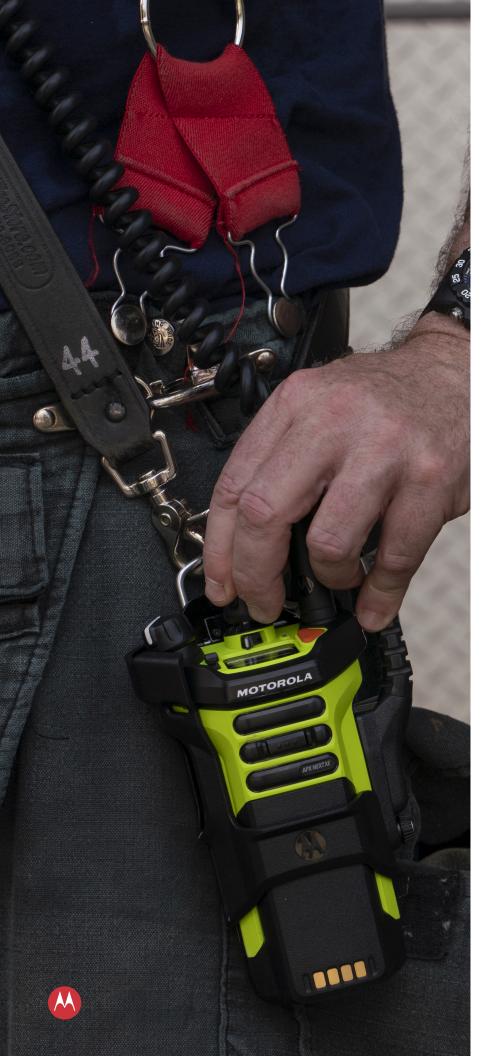
Adaptive audio engine

Our proven adaptive audio engine - including advanced noise suppression - works in tandem with the multiple HDR microphones to reduce the effects of unpredictable background noise in loud or windy environments. The microphones feed into sophisticated algorithms which track your voice and filter out the surrounding noise for superior intelligibility. And arranged for all-round coverage, multiple microphones ensure your voice is heard from every direction and different usage positions – even while using an SCBA mask.

Intelligent noise reduction

As the 4th generation of our noise suppression technology, Intelligent Noise Reduction (INR) is an advanced software algorithm embedded directly on your radio that removes background noise for users transmitting in noisy environments such as PASS alarms, sirens, water pumps and road noise.

Effortless is always in reach

For technology to really be there when you need it, it has to be more than just operational – it needs to be effortless to use in even the most chaotic situations. Every interaction is simple, fast and logical so you can stay focused on what matters—your call and your safety.

APX NEXT XE allows for operation by conventional hard controls, touchscreen soft controls, and eyes-up voice control giving you the flexibility to communicate and receive information how you need it as the call evolves.

ViQi uses a set of commands to enable radio operation in low or high noise environments.

Ruggedized touchscreen

This mission-critical touchscreen is designed for all-weather use and extreme elements. A rigid stainless steel plate supports the ulta-rugged toughened glass from underneath. A heavy-duty digitizer recognizes touches even through gloves, while rejecting false touches from the elements. And with a transflective display, you are set for indoor and outdoor readability.

High velocity design

Oversized, intuitive knobs and buttons are easy to grip, distinguishable by touch and designed to minimize accidental activations. From display size to button positioning, the radio controls are easy to access and operate with or without gloves for all mission-critical and essential radio operations. A shallow touchscreen menu structure, with a maximum menu depth of three on core radio functions, speeds up navigation to quickly give you the information you need and return your focus back to your tasks.

ViQi

ViQi uses a set of commands to enable radio operation in low or high noise environments — helping maintain eyes-up awareness.

ViQi button allows for quick access to voice controls — enabling firefighters to perform actions such as changing channels, check battery status, and adjusting volume without breaking focus.

Bringing new intelligence to the point of engagement

APX NEXT XE application services bring new intelligence to the field. Because when you need information, you need it fast.

SmartConnect When you move beyond the limits of your radio system's coverage, you shouldn't have to leave your lifeline behind. Whether the demands of a call take you in the depths of a city canyon, or providing mutual aid in the neighboring county, SmartConnect ensures your lifeline is always in reach. Automatic switching between P25 and broadband LTE maintains voice communications regardless of radio coverage.

P25 packet routing preserves your authentication, status, talkgroups and encryption without interruptions or resets.

SmartMapping When a call quickly unfolds, keeping track of the big picture can give you the edge you need to be more effective in incident organization or firefighter safety.

Get precise location information on a modern map interface - right on your radio for enhanced situational awareness in the field. See your location, find an address, drop waypoints, and stay in touch with the situation. View the location of other units and firefighters at a glance. Quickly pinpoint colleagues in distress. Simply tap to communicate.

SmartIncident SmartIncident keeps firefighters informed and on top of the situation, enhancing their situational awareness with key information including assignment notifications, incident updates, CAD comments, map views of deployed units and hazards in the vicinity.

SmartLocate Cutting-edge location routing services sends your radio location data over broadband LTE for faster updates and increased efficiency, while expanding the number of devices that can be tracked simultaneously.

SmartLocate automatically triangulates radio location using nearby cell towers and Wi-Fi access points for greater accuracy when indoors, deep street canyons, or forested areas.

SmartMessaging Turn your radio into a multimedia toolkit. Securely share texts, images, videos and voicenotes across your extended team - either with individuals or groups on other radios or smartphones. Need information about an incident? Send a text. Have a citizen who is able to send in pictures while reporting an incident? Dispatch can share with others responding to the call for better preparation.

SmartMessaging is designed specifically for public safety, built right into the APX NEXT XE homescreen for quick, intuitive use, while keeping content securely stored for future reference.

Public safety applications platform The APX NEXT XE application services platform enables applications to augment data from across the public safety landscape – including radio, broadband, video, public and private data sources – and delivers it to first responders.

Our application foundation is designed for extensibility, with feedback from you. New capabilities and functionalities are continuously created and can be seamlessly added to your radio fleet as your needs evolve.

Program and update your fleet in minutes, not months

APX NEXT XE gives you back time with its streamlined ownership experience – so your valuable resources stay focused and ready.

Behind first responders, stands a team working to keep them safe – from technicians to IT staff to network engineers. For public safety personnel – every second counts and time is a critical asset.

SmartProgramming coupled with RadioCentral allows radios to be prepared before they arrive, and kept up-to-date remotely with zero touch and zero downtime.

RadioCentral

With thousands of subscriber units, hundreds of unique codeplugs and limited IT resources, updating your radio fleet can take months. RadioCentral™, our cloud based programming platform, dramatically reduces the time and resources needed to provision and update your radio fleet.

Thousands of parameters - talk groups, encryption keys and software options - can be programmed remotely in minutes, not months. You can send updates directly to personnel, all securely and without ever handling the radios.

SmartProgramming

SmartProgramming coupled with RadioCentral allows initial programming, software, security updates and radio data collection to be sent over LTE. Updates and radio data can be sent at anytime, anywhere utilizing the higher speed bandwidth and extended coverage of the LTE network.

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Optimized accessories

Audio

Hear and be heard like never before

APX NEXT XE has the same accessory port as other APX radios and offers various mission-critical audio accessories to best support your mission.

Newest to this lineup is the Xtreme Voice Remote Speaker Microphone (XVE500 RSM), the next generation mission-critical RSM designed for optimal use with APX NEXT XE. Equipped with four high dynamic range mics, automatic audio leveling and noise reduction, and built in ViQi button, the XVE500 RSM delivers the clearest and loudest audio communications with easy access to radio controls and critical information.

Whether you are in the heat of a fire or exposed to extreme weather conditions, the XVE500 will keep you connected to your team. This RSM was designed to withstand heat exposure of 500°F (260°C) for up to 5 minutes.

Energy

Maximize power, life and management

You may run out of energy before your battery does.

With the IMPRES™ 2 High Capacity Battery, you'll get more talk time. With improved water resistance, you'll never think twice about submersion. And a typical battery life of 14 hours with the standard battery and 18 hours with the high capacity battery ensures your lifeline works when you need it. For when your battery does need a recharge, Motorola Solutions offers two UL Div 2 IMPRES 2 fast charging solutions to charge one or several batteries simultaneously so your fleet is always ready for the next shift.

IMPRES 2 High Capacity Battery, Div 2

Carry

Secure, easy access

From classic holsters, to leather carrying cases and clips.

We've designed APX NEXT XE carrying accessories to ensure your radio remains easily retrievable for quick use, but secure and in place for whatever your call entails. Notably, the classic holster is equipped with a D-ring and belt clip which allows the user to attach the radio to a radio strap or belt right out of the box. The holster design also allows for drop-in charging, battery swap of any size, and insertion of the radio while attached to the RSM.

APX NEXT XE Classic Holster

Antennas

Designed for wearability

Redesigned antennas provide convenience without compromising performance.

Shorter, more flexible and compliant, conforming to the user in mission-critical environments. The new 7/800MHz Stubby Antenna for APX NEXT XE delivers great coverage, but in a compact form factor that won't snag clothing or equipment, while the new Whip All-band Antenna is fabricated using a new polymer that delivers 40% more flexibility.

For a complete list of accessories, please visit
motorolasolutions.com/apxnextxeradio

7/800MHz Stubby Antenna

Whip All-Band Antenna

Managed and support services

Achieve mission critical performance. Rely on us to help you achieve your performance targets with the right service level you need for systems, devices and applications.

Each package provides a higher level of support, transferring the risk and responsibility to Motorola Solutions. We provide a range of service capabilities, including:

Customer hub

A web-based platform that gives you a transparent, single source view of fleet status and service delivery information to help make smarter, faster and more proactive decisions.

Technical support

Industry certified technical engineers can troubleshoot and provide prompt resolution to any technical issues, whether on-site dispatch or remote.

Hardware repair and software maintenance

Ensure continuous security, performance and enhanced functionality of your two-way radios by getting access to APX NEXT XE certified and tested release software updates and upgrades and protect your radios from normal wear and tear.

Preventative maintenance

Our certified technicians conduct annual maintenance checks to help extend the useful life of your radios, reducing repair and replacement costs.

Accidental damage

Radios are protected from accidental breakage or liquid spills and physical damage. With state-of-the-art diagnostic equipment all of your agency's radio components are protected in the event of an unexpected failure and are back in operation as soon as possible.

Device programming

APX NEXT XE includes Customer Programming Software (CPS) for one-at-a-time programming. We can enable batch programming for radios with centralized management to dramatically reduce the time and resources needed to provision and update your radio fleet.

As an add-on service, our technical teams can help you provision and program your fleet of radios on-site and train your staff on the radio fleet commissioning and management.

To learn more, visit: **motorolasolutions.com/apxnextxe**

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