

Brochure


APX NEXT XN

All-band P25 smart radio

Outperform the unexpected



MOTOROLA SOLUTIONS



Chaos doesn't call ahead.
Routine can turn extreme without
a moment's notice. Outperform
whatever the unexpected throws
at you with APX NEXT XN.

The equipment you use must be as versatile and reliable as you are - taking on routine calls one minute and the most threatening situations the next. The success of the incident relies on the adaptability and resiliency of you, your equipment and your crew.

The APX NEXT XN P25 smart radio is designed with unprecedented durability, ready to operate in day-to-day situations to the most extreme environments. It mobilizes intelligence to bring vital information to your hands for improved collaboration with your crew — so you can outperform whatever the unexpected throws at you.





Operate in uncharted extremes

You have seen tough, but not like this.

APX NEXT XN takes toughness to a new level, with NFPA 1802 certification for use in the hazard zone. Frozen, heated, drowned, flash fried, dropped and tumbled. This radio is ready for unexpected extremes.

Notable NFPA 1802 test requirements

- Withstands 500°F (260°C) conditions for 5 minutes
- Withstands 350°F (177°F) conditions for 15 minutes then immersed into 4.9 ft (1.5 m) of water
- Three radios exposed to 72°F (22°C), -4°F (-20°C), 160°F (71°C) are dropped eight times from 9.8 ft (3 m)
- Resists direct flames for 10 seconds

Added software features enhance fireground safety.

Radio self-checks are performed on initial power up and periodic self-checks every five minutes for:

- Battery level
- Radio temperature
- Antenna and RSM connections

Audible and visual alerts during:

- Connection failures
- Battery levels
- Emergency button press
- Self-check failures
- Over temperature
- Power cycle
- Connecting new accessory
- Out-of-range
- Loss of a connection to a system

The **most recent 2,000 actions are logged in the radio** and downloadable for post-incident review.



Showcasing leading APX audio

Ruggedness and safety is bolstered with advanced audio techniques in both the APX NEXT XN radio and XVN500 RSM so your lifeline will adapt its audio output when calm turns to chaos for the most intelligible audio in any environment.

High Dynamic Range (HDR) microphones

APX NEXT XN features two HDR microphones, which improve intelligibility with extremely loud and soft inputs, and reduce noise and distortion across the range. The XVN500 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.

Adaptive audio engine

Our proven adaptive audio engine 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.

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.

When you need to leverage your lifeline to go beyond voice, you are ultra connected with:

- LMR Single or multi-band configurations
- LTE
- GPS
- Wi-Fi
- Bluetooth

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 usability and versatility

From advanced physical ergonomics, to streamlined touchscreen interactions, to new natural interfaces, APX NEXT XN is designed for effortless usability and versatility for day-to-day operations and when everything is on the line.

Familiar ergonomics and layout

Classic 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. Our familiar ergonomics are carried over from previous APX designs and now required by the latest fire service standards.

Ruggedized touchscreen

This mission-critical touchscreen is designed for all-weather use. A rigid stainless steel plate supports the ultra-rugged toughened glass from underneath. A heavy-duty digitizer recognizes touches even through gloves, while rejecting false touches from the elements. With a transfective display, you are set for indoor and outdoor readability. A shallow touchscreen 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 reduces the time to perform simple radio functions with the touch of a button. It can be used to enable radio operation in low or high noise environments – helping maintain eyes-up awareness. The ViQi button allows for quick access to voice controls – enabling firefighters to perform actions such as changing zones, channels, check battery status, and adjusting volume without breaking focus.





Expandable intelligence for today and beyond

The nature of the incidents you call on can change rapidly, just like your needs for new technology. APX NEXT XN offers a secure and scalable platform for new capabilities to be seamlessly added as your needs evolve.



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 an urban 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. SmartConnect 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.

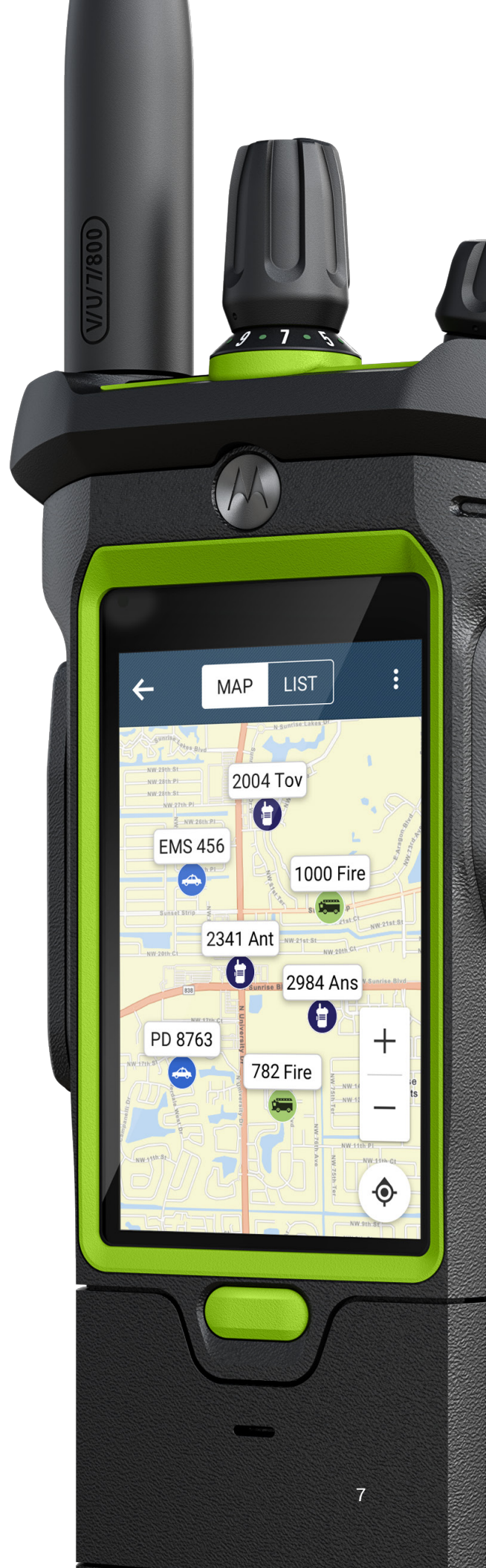
SmartIncident SmartIncident keeps firefighters informed and on top of the situation, enhancing their situational awareness with key information including assignment notifications, incident updates, CAD comments, map views of deployed units and hazards in the vicinity.

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 urban 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 XN homescreen for quick, intuitive use, while keeping content securely stored for future reference.

Public safety applications platform

The APX NEXT XN application foundation is designed for extensibility, with feedback from you. Motorola Solutions is continually exploring ways to enable data augmentation from across the public safety landscape - including radio, broadband, video, public and private data sources - to improve the everyday workflow and safety of firefighters.





Provision and optimize fleet management

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

Efficient batch programming

Managing a large fleet of radios can be complex, especially when your team requests changes to fielded radios. Leverage RadioCentral or Radio Management to view your entire fleet from a single interface and efficiently push batch programming changes in minutes. Our team of experts is here to guide your transition from CPS to our advanced software programming platforms, whether you use a cable, Wi-Fi or LTE SmartProgramming. We also offer an array of support services to ensure your fleet can be conveniently managed to optimize your communications.

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.



Advanced accessories

Back your lifeline with best-in class accessories

Audio

Hear and be heard like never before

The XVN500 Remote Speaker Microphone is NFPA 1802 certified when used with APX NEXT XN. Equipped with four high dynamic range mics, receive audio leveling and noise reduction, and built in ViQi button, the XVN500 RSM delivers the clearest and loudest audio communications with easy access to radio controls and critical information.

Energy

Maximize power, life and management

The UL Div 2 IMPRES™ 2 Battery gives you more talk time. With IP68 water resistance, you'll never think twice about submersion. Added reflection enables added visibility in dark environments. And a battery life of 11 hours ensures your lifeline works when you need it. For when your battery does need a recharge, Motorola Solutions offers IMPRES 2 fast charging solutions to charge one or several batteries simultaneously so your fleet is always ready for the next shift.

Carry

Secure, easy access

We've designed the APX NEXT XN leather carry case to ensure your radio remains easily retrievable, but secure and in place for whatever your call entails. This classic design is ready to withstand the harsh environments firefighters endure.

Antennas

Designed for wearability

The new Whip All-band Antenna is fabricated using a new polymer that is more flexible, conforming to the user in mission-critical environments.



XVN500 RSM



IMPRES 2 Standard
Capacity Battery,
Div 2



APX NEXT XN
Leather Carry Case



Whip All-Band
Antenna



Managed and support services

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 XN 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 XN 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/apxnextxn



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A.

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