

# APX NEXT

In public safety, focus is your greatest resource. Make sure it's protected with APX NEXT®



## A massive advance in mission-critical voice and data

Your radio is your lifeline. APX NEXT is our next step in advancing it. It's designed to military standards for extreme ruggedness. The gorilla glass touchscreen works with or without gloves—in rain, dirt, and dust. High dynamic microphones and a high-power speaker deliver high quality audio, while SmartConnect keeps you connected even beyond your P25 system. The result is a radio that works when you need it, without pause, distraction or doubt.

## Effortless is always within reach

APX NEXT is designed for effortless usability when everything is on the line. Intuitive knobs and buttons are easily distinguished by touch. A mission-critical touchscreen makes it fast and easy to operate your radio. ViQi understands a range of natural language voice commands, so you can operate the radio with eyes-up awareness. Every interaction is simple, fast and logical. You stay focused on what matters—your mission and your safety.

## Bring new intelligence to the point of engagement

APX NEXT smart applications bring new intelligence to the field. ViQi enables natural language database queries, rapidly giving vital information, and letting dispatchers stay focused on critical situations. And as part of our unique, end-to-end public safety ecosystem, APX NEXT data and operations are secure, and new capabilities can be seamlessly added as your needs evolve.

## Update your fleet in minutes, not months

APX NEXT gives you back time with a cloud based provisioning system that prepares radios before they arrive. Remote updating keeps radios in the field, with zero touch and zero downtime. CustomerHub provides direct access to subscriptions, warranties and licenses, and a range of services helps you manage your operation. With APX NEXT, your ownership experience is streamlined, so your valuable resources stay focused and ready.



# Mission-critical design



Dimensions above are with a standard battery



# Features

## OPERATION MODES

Digital Trunking: 9600 Baud APCO P25 Phase 1  
FDMA and Phase 2 TDMA

Digital Conventional: APCO 25

Analog Trunking: 3600 Baud SmartNet®, SmartZone®, Omnilink®

Analog Conventional: MDC 1200

ASTRO® 25 integrated voice and data

SmartConnect multi-net connectivity\*

## FREQUENCY BANDS

All-band: simultaneous operation in VHF, UHF Range 1, UHF Range 2,  
700 and 800 MHz Bands

Available in multi-band and single-band configurations

Up to 3000 channels

Up to 125 zones

## ADDITIONAL CONNECTIVITY

Bluetooth® **AN model:** 5.0  
**BN model:** 5.2

NFC (near-field communications)

WiFi **AN model:** 2.4 and 5 GHz bands 802.11a/b/g/n/ac  
**BN model:** 6E (2.4, 5 and 6 GHz bands) 802.11  
a/b/g/n/ac/ax

4G LTE **AN model:** FirstNet, Verizon and Bell Mobility  
certified  
**BN model:** FirstNet, Verizon, T-Mobile and Bell  
Mobility certified

5G SA **AN model:** n/a  
**BN model:** FirstNet, Verizon, T-Mobile and Bell  
Mobility certified

eSIM **AN model:** n/a  
**BN model:** Verizon

Dual SIM **AN model:** n/a  
**BN model:** SR2026.2 and higher

LEO (Low Earth Orbit) satellite  
connectivity **AN model:** n/a  
**BN model:** T-Mobile certified

## AUDIO FEATURES

3 W speaker with adaptive equalization

2 Internal digital microphones

Adaptive dual-sided operation

Adaptive noise suppression intensity

Adaptive gain control

Adaptive windporting

IMPRES™ audio accessory compatibility

Intelligent noise reduction

## MANAGEMENT

RadioCentral™\*

SmartProgramming\*

Radio management\*

## LOCATION-TRACKING

Built-in GNSS (GPS, Galileo, GLONASS) and A-GPS

SmartLocate and Indoor Positioning\*

Mission-critical Geofence\*\*

SmartMapping\*

## SECURITY

256-bit AES\*

Single-key ADP encryption\*

Software key

P25 Authentication\*

Multikey for 128 keys and multi-algorithm\*

Over-the-air keyloading\*\*\*

Over-the-air rekeying (OTAR)\*

## INGRESS PROTECTION

IP6x dust

IPx8 submersion (2 m, 4 hr)

MIL-STD Delta-T, 512.X Procedure 1

\*Optional feature \*\*Hardware-ready \*\*\*Included with OTAR



## MESSAGING

Text messaging

Freeform or canned messages

SmartMessaging\*

## USER INTERFACE

3.6" Mission-critical touchscreen: 800x480 TFT 24-bit full color transfective display, 1 mm Corning® Gorilla® Glass lens

Capacitive touch technology: usable with gloves up to 4 mm thick, resistant to false actuation from fresh or salt water, snow, ice, dirt or grease

High velocity user interface: large touch targets, shallow menu hierarchy, home screen information at a glance, integrated applications

1.2" Top display: 200x112 TFT 18-bit color transfective screen, 1 line of icons, 2 lines of text, 14 characters per line, 2 mm Corning® Gorilla® Glass lens

PTT button: 1.32 x 0.54 in (33.5 x 13.8 mm)

16-position channel selector

Angled power/volume knob

Large orange emergency button

3 Programmable side buttons (1-dot, 2-dot, purple)

Concentric 2-position switch

ABC zone switch

ViQi button (3-dot)

Display on/off/home button

## VIQI VOICE INTERACTION

Customizable voice announcements

ViQi: radio operation with intuitive commands\*

SmartQuery\*

SmartTranslate\*

## IMPRES™ 2 BATTERIES

|                 | NOTE | PART NO  | CAPACITY | AVAILABILITY |
|-----------------|------|----------|----------|--------------|
| Standard        | 7    | NNTN9216 | 4400 mAh | Included     |
| Standard HazLoc | 7    | NNTN9217 | 4400 mAh | Optional     |
| Hi-Cap          |      | PMNN4895 | 5550 mAh | Optional     |
| Hi-Cap HazLoc   |      | PMNN4896 | 5550 mAh | Optional     |

## SENSORS

Ambient light

Two accelerometers (Display Orientation, Man Down / Fall Alert)

Magnetometer (eCompass)

## OTHER FEATURES

Radio profiles

Enhanced data\*

Multicast voting scan\*

Man Down / Fall Alert\*

DVRS PSU\*

Digital tone signaling\*

## DIMENSIONS

APX NEXT  
radio with  
standard battery,  
no antenna  
Height: 5.4 in (138mm)  
Width: 2.5 in (63 mm)  
Depth: 1.7 in (43 mm)  
Weight (AN): 18.5 oz (525 g)  
(BN): 18.9 oz (536 g)

APX NEXT  
with Hi-cap  
battery,  
no antenna  
Height: 6.0 in (153 mm)  
Width: 2.5 in (63 mm)  
Depth: 1.7 in (43 mm)  
Weight (AN): 19.6 oz (556 g)  
(BN): 20.0 oz (567 g)

\*Optional Feature



# AN radio performance

| TRANSMITTER                                            |      |                    |                    |                    |                      |                      |
|--------------------------------------------------------|------|--------------------|--------------------|--------------------|----------------------|----------------------|
|                                                        | NOTE | VHF                | UHF RANGE 1        | UHF RANGE 2        | 700 MHz              | 800 MHz              |
| Frequency range / bandsplits                           | -    | 136-174 MHz        | 380-470 MHz        | 450-520 MHz        | 762-776, 792-806 MHz | 806-825, 851-870 MHz |
| Channel spacing                                        | 1    | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz   | 12.5 / 20 / 25 kHz   |
| Maximum frequency separation                           | -    | Full bandsplit     | Full bandsplit     | Full bandsplit     | Full bandsplit       | Full bandsplit       |
| Rated RF output power (adjustable)                     | 2    | 1-6 W              | 1-5 W              | 1-5 W              | 1-2.5 W              | 1-3 W                |
| Frequency stability<br>(-30 °C to +60 °C; +25 °C Ref.) | 2    | ±1.0 ppm           | ±1.0 ppm           | ±1.0 ppm           | ±1.0 ppm             | ±1.0 ppm             |
| Modulation limiting<br>(12.5 / 20 / 25 kHz channel)    | 2    | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz   | ±2.5 / ±4 / ±5 kHz   |
| Emissions (conducted and radiated)                     | 2    | -75 dBc            | -75 dBc            | -75 dBc            | -75 dBc              | -75 dBc              |
| Audio response                                         | 2    | +1, -3 dB          | +1, -3 dB          | +1, -3 dB          | +1, -3 dB            | +1, -3 dB            |
| FM hum and noise<br>(12.5 / 25 kHz channel)            | 2    | -53 / -55 dB       | -52 / -54 dB       | -51 / -54 dB       | -50 / -55 dB         | -49 / -53 dB         |
| Audio distortion<br>(12.5 / 25 kHz channel)            | 2    | 0.75% / 0.75%      | 0.75% / 0.75%      | 0.75% / 0.75%      | 0.85% / 0.85%        | 0.85% / 0.85%        |

| RECEIVER                                               |      |                          |                          |                          |                          |                          |
|--------------------------------------------------------|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                                        | NOTE | VHF                      | UHF RANGE 1              | UHF RANGE 2              | 700 MHz                  | 800 MHz                  |
| Frequency range / bandsplits                           | -    | 136-174 MHz              | 380-470 MHz              | 450-520 MHz              | 762-776, 799-806 MHz     | 851-870 MHz              |
| Channel spacing                                        | 1    | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       |
| Maximum frequency separation                           | -    | Full bandsplit           | Full bandsplit           | Full bandsplit           | Full bandsplit           | Full bandsplit           |
| Frequency stability<br>(-30 °C to +60 °C; +25 °C Ref.) | 2    | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 |
| Analog sensitivity (12 dB SINAD)                       | 2    | 0.178 µV<br>(-122.0 dBm) | 0.211 µV<br>(-120.5 dBm) | 0.211 µV<br>(-120.5 dBm) | 0.224 µV<br>(-120.0 dBm) | 0.237 µV<br>(-119.5 dBm) |
| Digital sensitivity (1% BER)                           | 3    | 0.266 µV<br>(-118.5 dBm) | 0.298 µV<br>(-117.5 dBm) | 0.298 µV<br>(-117.5 dBm) | 0.335 µV<br>(-116.5 dBm) | 0.335 µV<br>(-116.5 dBm) |
| Digital sensitivity (5% BER)                           | 3    | 0.158 µV<br>(-123.0 dBm) | 0.178 µV<br>(-122.0 dBm) | 0.178 µV<br>(-122.0 dBm) | 0.224 µV<br>(-120.0 dBm) | 0.224 µV<br>(-120.0 dBm) |
| Selectivity (12.5 / 25 kHz channel)<br>(one-tone)      | 2    | 77 / 84 dB               | 74 / 81 dB               | 74 / 81 dB               | 72 / 80 dB               | 72 / 79 dB               |
| Selectivity (12.5/25 kHz channel)<br>(two-tone)        | 2    | 62/84 dB                 | 61/81 dB                 | 61/81 dB                 | 60/80 dB                 | 60/79 dB                 |
| Intermodulation rejection                              | 2    | 82 dB                    | 80 dB                    | 80 dB                    | 80 dB                    | 80 dB                    |
| Spurious rejection                                     | 2    | 98 dB                    | 95 dB                    | 95 dB                    | 98 dB                    | 98 dB                    |
| FM hum and noise<br>(12.5 / 25 kHz channel)            | 2    | 55 / 59 dB               | 54 / 58 dB               | 54 / 58 dB               | 53 / 57 dB               | 52 / 56 dB               |
| Audio distortion                                       | 2    | 0.90%                    | 0.90%                    | 0.90%                    | 0.90%                    | 0.90%                    |



# BN radio performance

| TRANSMITTER                                            |      |                    |                    |                    |                      |                      |
|--------------------------------------------------------|------|--------------------|--------------------|--------------------|----------------------|----------------------|
|                                                        | NOTE | VHF                | UHF RANGE 1        | UHF RANGE 2        | 700 MHz              | 800 MHz              |
| Frequency range / bandsplits                           | -    | 136-174 MHz        | 380-470 MHz        | 450-520 MHz        | 762-776, 792-806 MHz | 806-825, 851-870 MHz |
| Channel spacing                                        | 1    | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz | 12.5 / 20 / 25 kHz   | 12.5 / 20 / 25 kHz   |
| Maximum frequency separation                           | -    | Full bandsplit     | Full bandsplit     | Full bandsplit     | Full bandsplit       | Full bandsplit       |
| Rated RF output power (adjustable)                     | 2    | 1-6 W              | 1-5 W              | 1-5 W              | 1-2.5 W              | 1-3 W                |
| Frequency stability<br>(-30 °C to +60 °C; +25 °C Ref.) | 2    | ±1.0 ppm           | ±1.0 ppm           | ±1.0 ppm           | ±1.0 ppm             | ±1.0 ppm             |
| Modulation limiting<br>(12.5 / 20 / 25 kHz channel)    | 2    | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz | ±2.5 / ±4 / ±5 kHz   | ±2.5 / ±4 / ±5 kHz   |
| Emissions (conducted and radiated)                     | 2    | -75 dBc            | -75 dBc            | -75 dBc            | -75 dBc              | -75 dBc              |
| Audio response                                         | 2    | +1, -3 dB          | +1, -3 dB          | +1, -3 dB          | +1, -3 dB            | +1, -3 dB            |
| FM hum and noise<br>(12.5 / 25 kHz channel)            | 2    | -56 / -57 dB       | -53 / -56 dB       | -52 / -56 dB       | -52 / -54 dB         | -49 / -54 dB         |
| Audio distortion<br>(12.5 / 25 kHz channel)            | 2    | 0.75% / 0.75%      | 0.75% / 0.75%      | 0.75% / 0.75%      | 0.85% / 0.85%        | 0.85% / 0.85%        |

| RECEIVER                                               |      |                          |                          |                          |                          |                          |
|--------------------------------------------------------|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                                        | NOTE | VHF                      | UHF RANGE 1              | UHF RANGE 2              | 700 MHz                  | 800 MHz                  |
| Frequency range / bandsplits                           | -    | 136-174 MHz              | 380-470 MHz              | 450-520 MHz              | 762-776, 799-806 MHz     | 851-870 MHz              |
| Channel spacing                                        | 1    | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       | 12.5 / 20 / 25 kHz       |
| Maximum frequency separation                           | -    | Full bandsplit           | Full bandsplit           | Full bandsplit           | Full bandsplit           | Full bandsplit           |
| Frequency stability<br>(-30 °C to +60 °C; +25 °C Ref.) | 2    | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 | ±1.0 ppm                 |
| Analog sensitivity (12 dB SINAD)                       | 2    | 0.178 µV<br>(-122.0 dBm) | 0.211 µV<br>(-120.5 dBm) | 0.211 µV<br>(-120.5 dBm) | 0.224 µV<br>(-120.0 dBm) | 0.237 µV<br>(-119.5 dBm) |
| Digital sensitivity (1% BER)                           | 3    | 0.266 µV<br>(-118.5 dBm) | 0.298 µV<br>(-117.5 dBm) | 0.298 µV<br>(-117.5 dBm) | 0.335 µV<br>(-116.5 dBm) | 0.335 µV<br>(-116.5 dBm) |
| Digital sensitivity (5% BER)                           | 3    | 0.158 µV<br>(-123.0 dBm) | 0.178 µV<br>(-122.0 dBm) | 0.178 µV<br>(-122.0 dBm) | 0.224 µV<br>(-120.0 dBm) | 0.224 µV<br>(-120.0 dBm) |
| Selectivity (12.5/25 kHz channel)<br>(two-tone)        | 2    | 62/84 dB                 | 62/81 dB                 | 62/81 dB                 | 61/80 dB                 | 61/79 dB                 |
| Intermodulation rejection                              | 2    | 82 dB                    | 80 dB                    | 80 dB                    | 82 dB                    | 82 dB                    |
| Spurious rejection                                     | 2    | 98 dB                    | 95 dB                    | 95 dB                    | 98 dB                    | 98 dB                    |
| FM hum and noise<br>(12.5 / 25 kHz channel)            | 2    | 59 / 64 dB               | 55 / 60 dB               | 55 / 60 dB               | 53 / 58 dB               | 53 / 58 dB               |
| Audio distortion                                       | 2    | 0.90%                    | 0.90%                    | 0.90%                    | 0.90%                    | 0.90%                    |



| ENCRYPTION                       |                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported encryption algorithms  | ADP, 256-bit AES, DES, DES-XL, DES-OFB, DVP-XL, Localized Algorithm                                                                                                            |
| Encryption algorithm capacity    | 8                                                                                                                                                                              |
| Encryption keys per radio        | 1024 Keys, Programmable for 128 Common Key References (CKR) or 16 Physical Identifiers (PID)                                                                                   |
| Encryption keying                | Local Key Loader and Over-the-Air Rekeying (OTAR)                                                                                                                              |
| Synchronization                  | XL - Counter Addressing, OFB - Output Feedback                                                                                                                                 |
| Vector generator                 | NIST-Approved Random Number Generator                                                                                                                                          |
| Encryption type                  | Digital and SecureNet, TLS1.2, SRTP                                                                                                                                            |
| Key storage                      | Tamper-protected volatile or non-volatile memory                                                                                                                               |
| Key erasure                      | Keyboard command and tamper detection                                                                                                                                          |
| Standards                        | FIPS 140-3 Level 1 and Level 3, FIPS 197                                                                                                                                       |
| Device certificates              | x.509v3 ECC-P384, x.509v3 RSA-2048                                                                                                                                             |
| Cipher suites FIPS 140-2 Level 1 | ECDHE_ECDSA_WITH_AES256_GCM_SHA384<br>TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384<br>TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA<br>TLS_RSA_WITH_AES_256_GCM_SHA384<br>SRTP_AEAD_AES_256_GCM1 |

| COLOR          |            |
|----------------|------------|
| Standard color | Black/gray |

| AUDIO                             |                                                                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio output power at rated       | 3 W                                                                                                                                                                                            |
| Audio output power at max         | 5 W                                                                                                                                                                                            |
| Audio response (EIA)              | +1, -3 dB                                                                                                                                                                                      |
| Speech loudness at 12 in (300 mm) | 105 Phon                                                                                                                                                                                       |
| Audio features                    | Adaptive equalization<br>Adaptive dual-sided operation<br>Adaptive noise suppression intensity<br>Adaptive gain control<br>Adaptive windporting<br>IMPRES audio<br>Intelligent noise reduction |

| WIRELESS            |                                                                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MOBILE BROADBAND    | NOTE                                                                                                                                                                                                                                         |
|                     | <b>AN model:</b> B2, B4, B12, B13, B14, B17 B5 (hardware ready)                                                                                                                                                                              |
| Bands supported     | <b>BN model:</b> B2, B4, B5, B12, B13, B14, B17, B25, B66, B71<br>5G: (SA Only): n2, n5, n25, n41, n66, n71, n77, n78                                                                                                                        |
| Device category     | 4                                                                                                                                                                                                                                            |
| Certifications      | <b>AN model:</b> 4G LTE with FirstNet, Verizon and Bell Mobility certified.<br><b>BN model:</b> 4G LTE with FirstNet, Verizon, T-Priority and Bell Mobility certified<br>5G SA with FirstNet, Verizon, T-Mobile and Bell Mobility certified. |
| WIFI                |                                                                                                                                                                                                                                              |
| Standards supported | <b>AN model:</b> 802.11a/b/g/n/ac<br><b>BN model:</b> 802.11 a/b/g/n/ac/ax                                                                                                                                                                   |
| Frequency range     | <b>AN model:</b> 2400-2472, 5180-5825 MHz<br><b>BN model:</b> 2400-2472, 5180-5825, 5925-7125 MHz                                                                                                                                            |
| Security            | Supports WPA-2, WPA, WEP                                                                                                                                                                                                                     |
| Capacity            | Up to 20 SSIDs                                                                                                                                                                                                                               |
| BLUETOOTH           |                                                                                                                                                                                                                                              |
| Version             | <b>AN model:</b> 5.0<br><b>BN model:</b> 5.2                                                                                                                                                                                                 |
| Frequency range     | 2402 - 2480 MHz                                                                                                                                                                                                                              |
| Security            | 128-bit AES-CCM Encryption                                                                                                                                                                                                                   |

| LOCATION-TRACKING    |                                               |
|----------------------|-----------------------------------------------|
| NOTE                 |                                               |
| Constellations       | - GPS, Galileo, GLONASS, A-GPS                |
| Tracking sensitivity | - -159 dBm                                    |
| Accuracy             | 6 <5m (95%)                                   |
| Cold start           | 6 <60 seconds (95%)                           |
| Hot start            | 6 <5 seconds (95%)                            |
| Mode                 | - Autonomous (assisted only with LTE service) |



# Environmental and Regulatory

| MIL-STD 810       |              |                 |              |             |              |             |              |               |                |               |
|-------------------|--------------|-----------------|--------------|-------------|--------------|-------------|--------------|---------------|----------------|---------------|
|                   | MIL-STD 810C |                 | MIL-STD 810D |             | MIL-STD 810E |             | MIL-STD 810F |               | MIL-STD 810G/H |               |
|                   | Method       | Proc./Cat.      | Method       | Proc./Cat.  | Method       | Proc./Cat.  | Method       | Proc./Cat.    | Method         | Proc./Cat.    |
| Low pressure      | 500.1        | I               | 500.2        | II          | 500.3        | II          | 500.4        | II            | 500.5          | II            |
| High temperature  | 501.1        | I, II           | 501.2        | I/A1, II/A1 | 501.3        | I/A1, II/A1 | 501.4        | I/Hot, II/Hot | 501.5          | I/A1, II/A1   |
| Low temperature   | 502.1        | I               | 502.2        | I/C3, II/C1 | 502.3        | I/C3, II/C1 | 502.4        | I/C3, II/C1   | 502.5          | I/C3, II/C1   |
| Temperature shock | 503.1        | I               | 503.2        | I/A1, C3    | 503.3        | I/A1, C3    | 503.4        | I             | 503.5          | I/C           |
| Solar radiation   | 505.1        | II              | 505.2        | I           | 505.3        | I           | 505.4        | I             | 505.5          | I/A1          |
| Rain              | 506.1        | I, II           | 506.2        | I, II       | 506.3        | I, II       | 506.4        | I, III        | 506.5          | I, III        |
| Humidity          | 507.1        | II              | 507.2        | II          | 507.3        | II          | 507.4        | 1 Proc        | 507.5          | II/Aggravated |
| Salt fog          | 509.1        | I               | 509.2        | I           | 509.3        | I           | 509.4        | 1 Proc        | 509.5          | 1 Proc        |
| Blowing dust      | 510.1        | I               | 510.2        | I           | 510.3        | I           | 510.4        | I             | 510.5          | I             |
| Blowing sand      | 1 Proc       | 1 Proc          | 510.2        | II          | 510.3        | II          | 510.4        | II            | 510.5          | II            |
| Submersion        | 512.1        | I               | 512.2        | I           | 512.3        | I           | 512.4        | I             | 512.5          | I             |
| Vibration         | 514.2        | VIII/F, Curve-W | 514.3        | I/10, II/3  | 514.4        | I/10, II/3  | 514.5        | I/24          | 514.6          | I/24          |
| Shock             | 516.2        | I, III, V       | 516.3        | I, V, VI    | 516.4        | I, V, VI    | 516.5        | I, V, VI      | 516.6          | I, V, VI      |
| Shock (drop)      | 516.2        | II              | 516.3        | IV          | 516.4        | IV          | 516.5        | IV            | 516.6          | IV            |

| ENVIRONMENTAL                 |   |                                                             |
|-------------------------------|---|-------------------------------------------------------------|
| NOTE                          |   |                                                             |
| Operating temperature         | 7 | -30 to +60 °C (-22 to +140 °F)                              |
| Storage temperature           | 7 | -40 to +85 °C (-40 to +185 °F)                              |
| Humidity                      | - | Per MIL-STD 810                                             |
| ESD                           | - | IEC 61000-4-2                                               |
| Dust resistance               | - | IP6X                                                        |
| Water resistance (Submersion) | - | IPX8 (2 meters, 4 hours) MIL-STD Delta-T, 512.X Procedure 1 |

| REGULATORY            |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| FCC ID                | AN model: AZ489FT7119                                                  |
|                       | BN model: AZ489FT7184                                                  |
| IC ID                 | AN model: 109U-89FT7119                                                |
|                       | BN model: 109U-89FT7184                                                |
| LMR                   | 8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E                   |
| Bluetooth             | 1M18G1D, 1M1F1D, 2M1F1D                                                |
| WiFi                  | 12M9G1D, 16M7D1D, 17M9D1D, 36M2D1D, 17M5D1D, 18M4D1D, 36M8D1D, 76M1D1D |
| All-band model number | AN model: H55TGT9PW8AN                                                 |
|                       | BN model: H55TGT9PW8BN                                                 |

<sup>1</sup>Please refer to local regulations for available channel bandwidths.

<sup>2</sup>Measured conductively in analog mode per TIA / EIA 603 under nominal conditions, and at 1 W Rated Audio for Rx. Selectivity was measured using the TIA-603 single-tone and TIA-603 2.1.6 two-tone ACR methodology for the AN radio model. Selectivity was measured using the TIA-603 2.1.6 two-tone ACR methodology for the BN radio model..

<sup>3</sup>Measured conductively in digital mode per TIA / EIA IS 102.

<sup>4</sup>Listed by UL to non-incendive standards: UL 121201 and CAN/CSA C22.2 No. 213-17 as safe for use in Class I, Division 2, Groups A,B,C,D; Class II, Division 2, Groups F,G; Class III Hazardous Locations.

<sup>5</sup>SIM cards for the listed carriers can be pre-installed at the Motorola Solutions factory or supplied by the end user via Bring Your Own SIM (BYOS) for certified carriers.

<sup>6</sup>Measured conductively with >6 satellites visible at a nominal -130 dBm signal strength. Specs provided are 95th percentile values.

<sup>7</sup>LMR only. Front display, LTE, WiFi, Bluetooth and GPS not available when radio internal temperature is below -20 °C (-4 °F). Standard capacity (NNTN9216B or NNTN9217B) battery required for operation between -20 °C (-4 °F) and -30 °C (-22 °F). Batteries should be charged at 0 to +45 °C (+32 to +113 °F) and stored at +20 to +25 °C (+68 to +77 °F).

Reference [motorolasolutions.com/batteryare](https://motorolasolutions.com/batteryare)

All specifications shown are typical. Specifications are subject to change without notice. For full details consult product service manual, document no. MN005643A01.

The APX NEXT AN hardware does not support field upgrades to T-Mobile, 5G, eSIM/Dual SIM or LEO satellite connectivity.



# 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.

Motorola Solutions provides 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 certified and tested release software updates and upgrades and protect your radios from normal wear and tear.

## 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 includes Customer Programming Software (CPS) for one-at-a-time programming. We can enable batch programming for radios with centralized management with RadioCentral 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.

## Preventive maintenance

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





To learn more, visit:  
[www.motorolasolutions.com/apxnext](http://www.motorolasolutions.com/apxnext)



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This device is only available in North America and APAC regions.

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