The XVN500 RSM, NFPA 1802 certified when used with APX NEXT XN, features an intelligent audio design that provides clear communication from any direction, in any extreme environment.

**DETAILS**
When paired with the APX NEXT XN, the XVN500 RSM’s fire standards are unmatched. Capable of being dropped, frozen, heated, drowned and tumbled, this RSM redefines toughness. Both the XVN500’s housing and audio functions will withstand extreme conditions. With four high dynamic range mics, automatic audio leveling and noise reduction and a built in ViQi button, the XVN500 RSM will deliver loud, clear communications despite the noise of your environment.

**KEY FEATURES OVERVIEW**
- Heat resistant housing and cable
- Exceptionally loud speaker
- Four High Dynamic Range (HDR) microphones
- Dedicated ViQi button
- Water and Windshielding
- New adaptive noise suppression
- Illuminated emergency button

**TESTED FOR EXTREME ENVIRONMENTS**
The XVN500 RSM can withstand:
- 500°F conditions for 5 minutes
- 350°F conditions for 15 minutes then immersed into 5ft. of water
- Direct flames for 10 seconds
- 10ft drop after being exposed to 72°F, -4°F and 160°F

**ENHANCED SOFTWARE FEATURES**
- APX NEXT XN system self-checks RSM connection every 5 minutes
- Built-in sensor for over temperature alert
- RSM Data logging via APX NEXT XN
- Bluetooth connection status LED indication
MISSION-CRITICAL DESIGN

AUDIO FOR EXTREME ENVIRONMENTS

The XVN500 features four high dynamic range (HDR) microphones, which are arranged for all-round coverage. This guarantees that communications are clear from every direction. The designated HDR mic arrangement also provides significant muffled audio reductions from any positions that the RSM may be held or worn.

To further enhance noise suppression, all HDR microphones are not only windported but are also placed behind our exclusively engineered housing. This further redirects airflow and facilitates water draining, effectively mitigating any leftover wind noise.

The XVN500’s HDR microphone technology prevents speech distortion, even when shouting in extreme noise environments. And as the noise environment changes, so will the XVN500 to adjust for maximum noise cancellation. When combined with the APX NEXT XN, this technology will give firefighters high quality audio features for any intense situation.

The XVN500 RSM speaker improves speaker clarity while maintaining best in class volumes. Even at the highest volume, the RSM will maintain understandable and intelligible audio output. This audio cuts through the noisiest environments while simultaneously preserving audio richness at mid to low volumes.

The XVN500 audio experience is enhanced by using the full features of the adaptive audio engine on the APX NEXT XN.

This dynamically optimizes the radio’s performance in the presence of background noise. Adaptive microphones gain control while adaptive speaker equalization provides the loudest, most intelligible audio in any environment, even at maximum volume.

The algorithm in the XVN500 RSM allows additional audio features like Receive Volume Leveling to be maximized through the RSM. With receive volume leveling, a firefighter can set the volume once, and the radio will adjust based on the power of the received audio of loud or soft voices.
EXTREME DURABILITY
Like its compatible radio, the AXP NEXT XN, the XVN500 RSM can withstand any and every condition up to the latest firefighter standards. With specially designed and developed housing, this RSM has been tested and proven to operate in various high temperatures. When faced with extreme conditions, you, your RSM and your radio will be prepared for anything that comes your way.

VIQI ACCESS
The XVN500's ViQi button creates efficient access to voice controls. This enables firefighters to perform actions without breaking focus, such as changing zones/channels, checking battery status and adjusting volume. Click here to learn more about ViQi.

XVN500 RSM SPECIFICATIONS

GENERAL
- **Part Number**: PMMN4138A
- **Compatible Radio**: APX NEXT XN
- **Dimensions (RSM Head only)**: 3.86 x 2.96 x 1.3 in (98 x 75 x 34 mm)
- **Weight (Full Kit)**: 14.22 oz. (403 g) no knob
- **Color**: High Impact Green
- **Power Source**: Radio
- **Emergency Button**: Yes
- **1-dot Button**: Yes
- **3-dot Button**: Yes
- **Hot Microphone Feature**: Supported through radio software configuration**
- **Noise Cancelling**: DINC-Xwb
- **Clip**: 360° Rotating Clip with D-Ring

MICROPHONE
- **Type**: Quad Beam
- **Sensitivity**: -42dBV Typical
- **Distortion (THD)**: < 5%, Wideband
- **IMPRES™**: Yes
- **Noise Cancellation**: 4 Microphone Adaptive Noise Suppression Algorithm
- **Windporting**: Yes

SPEAKER
- **Diameter**: 1.9 in (47 mm)
- **Rated Output Level**: Max Power 3W (rated 0.5W @90 dB SPL @30cm)
- **Speech Loudness @12in (300mm)**: 105 Phon
- **Distortion (THD)**: < 15%

CONTROLS
- **Top**: Emergency (Orange)
- **Side**: PTT, 1 Programmable (1-dot)
- **Front**: 1 Programmable (3-dot ViQi)
- **Volume**: Up/Down
- **Strobe**: 1 Strobe Light Control (front facing)

COILED CABLE
- **Flex Life**: 100,000 Cycles Minimum
- **Full Strength**: 40 lbs (18.14 kg) Minimum
- **Cable Length**: 7 in (178 mm) Coiled Length
- **Accessory Connector Case**: Polycarbonate Black (Withstand high heat)

ENVIRONMENTAL
- **Operating Temperature**: -40°C to +100°C (-40°F to +212°F)
- **Storage Temperature**: -55°C to +85°C (-67°F to +185°F)
- **Humidity**: 90%-95% Relative Humidity at +50°C for 8 hours
- **ESD**: IEC / EN 61000-4-2
- **IP Rating**: IP68 (2 meters, 4 hours)
- **Impact Grill**: 1.25 in (31.75 mm) Diameter Steel Ball Drop
- **Work-When-Wet**: Yes

HAZARDOUS CERTIFICATION
- **Div 2, Class I (A, B, C, D), Class II (F, G), Class III**
- **The XVN500 RSM is UL certified for APX NEXT XN radio, please see your radio’s UL manual for more information.**
- **NFPA 1802 certified when used with APX NEXT XN radio**

REPLACEMENT PARTS
- **CB001073AD01**: Extreme Temperature Replacement Cable
- **PMLN9005A**: Replacement Clip
PORTABLE MILITARY STANDARDS 810 C, D, E, F & G

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<tr>
<th>Method</th>
<th>Proc./Cat.</th>
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OUTPERFORM THE UNEXPECTED

To view compatible accessories of the APX NEXT XN radio, please visit motorolasolutions.com/apxnextxn