

# KEEP PERSONNEL AND COMMUNITIES SAFER

**APX MISSION-CRITICAL P25 COMMUNICATIONS** 





# THE BEST OF WHAT WE DO

Whether you're a state trooper, firefighter, law enforcement officer or highway maintenance technician, people count on you to get the job done. There's no room for error. This is mission critical.

APX<sup>™</sup> radios exist for this purpose. They're designed to be reliable and to optimize your communications, specifically in extreme environments and during life-threatening situations.

Even with the widest portfolio in the industry, APX continues to evolve. The latest APX NEXT smart radio series delivers revolutionary new capabilities to keep you safer and more effective.

WE'VE PUT EVERYTHING WE'VE LEARNED OVER THE LAST 90 YEARS INTO APX. THAT'S WHY IT REPRESENTS THE VERY BEST OF THE MOTOROLA SOLUTIONS PORTFOLIO. THERE IS NO BETTER.



#### **OUTLAST AND OUTPERFORM**

# RELIABLE COMMUNICATIONS ARE NON-NEGOTIABLE

APX two-way radios are designed for extreme durability, so you can count on them to work under the toughest conditions. From the rugged aluminum endoskeleton of our portable radios to the steel encasement of our mobile radios, APX is built to last.



#### **HEAR AND BE HEARD**

# CLEAR COMMUNICATION CAN MAKE A DIFFERENCE

The APX family is designed to help you hear and be heard with unparalleled clarity, so you're confident your message will always get through. Multiple microphones and adaptive windporting technology minimize noise from wind, crowds and sirens. And the loud and clear speaker ensures you can hear over background sounds.



#### **KEEP INFORMATION PROTECTED**

#### EVERYDAY, SECURITY IS BEING PUT TO THE TEST

With the APX family, you can be sure that your calls stay private, secure, and confidential. APX supports multiple types of standard and custom encryption. The MACE hardware encryption module equipped within an APX radio provides a hardened tamper-resistant chassis for storing encryption keys.



#### **MADE FOR THE MISSION**

# APX RADIOS ARE INTUITIVE AND EASY TO USE FOR YOUR MISSION

A distinctive "T-grip" shape allows devices to be easily held with gloved hands or in wet environments. Positive action controls minimize the risk of accidental operation, while extreme ergonomic models are designed for specialized conditions. Easy to read displays, day and night, placed just where you need them for 'at-a-glance' status, or no display for covert operations.



#### **INTELLIGENCE IN ACTION**

# AN ECOSYSTEM OF CONNECTIVITY HELPS TO KEEP YOU SAFE

APX radios can prioritize emergency calls, send a signal automatically when they sense "man down" or a collision, provide a Bluetooth® beacon to find missing personnel, and automate responses to specific events or when detecting a geofence. And upon recognizing poor signal quality, APX radios can route voice and data over broadband.



# APX NEXT SERIES ALL-BAND P25 SMART RADIO

IN PUBLIC SAFETY, FOCUS IS YOUR GREATEST RESOURCE. PROTECT THAT FOCUS WITH APX NEXT – OUR REVOLUTIONARY NEW SMART RADIOS.

The APX NEXT™ series is our next step in advancing the lifeline. Designed to military standards for extreme ruggedness, the touchscreen works with or without gloves, in rain, dirt, and snow. High Dynamic Range mics and high-power speakers deliver our best audio ever, while SmartConnect keeps you connected beyond your P25 system. The result is a radio that works when you need it, without pause, distraction or doubt.

The APX NEXT series is designed for effortless usability when everything is on the line. Intuitive knobs and buttons can be distinguished by touch. A mission-critical touchscreen makes it fast and easy to operate your radio. The ViQi virtual assistant understands natural language voice commands, giving you eyes-up awareness. Every interaction is simple, fast and logical. You stay focused on what matters: your mission and your safety.



APX NEXT XE
DESIGNED FOR FIRE
AND RESCUE TEAMS

The APX NEXT series gives you back time. A cloud-based provisioning system allows radio managers to prepare radios even before they arrive, while remote updating keeps them in the field, with zero touch and zero downtime, and a range of services helps you manage your operation. With the APX NEXT series, your ownership experience is streamlined, so your valuable resources stay focused and ready.



# APX 8000 SERIES ALL-BAND P25 PORTABLE AND MOBILE RADIOS

CHAOS DOESN'T STOP AT BORDERS.
CRIMINALS DON'T RESPECT BOUNDARIES.
SO YOUR COMMUNICATIONS SHOULDN'T BE
LIMITED TO LOCAL FREQUENCIES.

With multi-mode access to all four major P25 bands, APX 8000 series radios know no limits when it comes to interoperability. You can work seamlessly with virtually any agency on any P25 system—and all from a single radio. Stay connected further with the high-power configuration of the APX 8500 mobile. And if that isn't enough — APX 8000 series radios can reroute your P25 communication over available broadband networks and keep you connected when outside of P25 coverage.

Whether you're frantically yelling for backup or quietly whispering for assistance, you still need that message to get through. The APX 8000 Adaptive Audio Engine dynamically adjusts the radio's audio response to deliver optimal clarity. Wind is filtered out and background noise is wiped away. Quiet audio is boosted and feedback howl is suppressed.

Security is more important than ever. Criminals are testing you on the streets and over the air. Fight back with the entire toolbox. Supporting simultaneous multi-protocol encryption and certified to FIPS 140-2 level 3, the APX 8000 series radios keep your critical communications absolutely iron-tight.



#### **APX 8000HXE**

360 DEGREES OF SAFETY

All-band HazLoc portable radio for fire and rescue teams.



#### **APX 8000H**

360 DEGREES OF PROTECTION

All-band HazLoc portable radio for first responders and military teams.



#### **APX 8000XE**

UNLIMITED MOBILITY. EXTREME PERFORMANCE.

All-band portable radio for fire and rescue teams.



#### **APX 8000**

UNLIMITED MOBILITY. UNCOMPROMISING PERFORMANCE.

All-band portable radio for first responders.







#### **APX 8500**

UNLIMITED MOBILITY.
MAXIMUM CONNECTIVITY

All-band mobile radio available in high power and mid power versions.



# BROCHURE | APX P25 COMMUNICATIONS

# APX 6000 SERIES SINGLE-BAND P25 PORTABLE AND MOBILE RADIOS

THE APX 6000 IS BUILT ON DECADES OF PUBLIC SAFETY EXPERIENCE TO DELIVER EFFORTLESS COMMUNICATION WHEN YOU NEED IT THE MOST.

For a single-band radio, the APX 6000 series does not lack in features. From ergonomics to audio quality, these radios are designed to outperform.

A non-slip T-grip shape sets the portable radio firmly in your hands while optimized placement of button and knobs offer immediate access to radio controls. Need to find the emergency button? Simply slide your hand down the portable radio antenna or reach for the top right corner of the mobile.

The APX 6000 picks up your speech from any direction and then the innovative APX Adaptive Audio Engine applies exactly the right amount of processing: enough to remove background noise, but not enough to degrade speech quality. Dynamically adjusting its algorithms as external conditions change, the APX 6000 automatically gives you the best audio that's possible.

Out on the streets, APX 6000 series radios are ready to take all the abuse you can throw at them. A rugged aluminum endoskeleton protects portable radios against drops, water and dust, while the steel shell helps mobile radios survive impacts. Because when your life is on the line every day, you can't afford to carry an ordinary radio.



#### **APX 6000XE**

RELIABLE. RESPONSIVE. READY FOR THE EXTREMES.

Single-band portable radio for fire and rescue teams.



#### **APX 6000**

RELIABLE. RESPONSIVE READY FOR ANYTHING.

Single-band portable radio for first responders.



#### **SRX 2200**

RELIABLE. RESPONSIVE. READY FOR ACTION.

Single-band portable radio for military teams.







#### **APX 6500**

RESPONSIVE. READY FOR THE STREETS.

Single-band mobile radio.



# APX 3000 AND APX 4000 SERIES SINGLE-BAND P25 PORTABLE AND MOBILE RADIOS

# P25 RELIABILITY AND PERFORMANCE WITH SOME OF OUR MOST POPULAR FEATURES.

You need P25 technology and you need the legendary reliability and performance of an APX radio, but you may not need all the features of a high-tier radio. The APX 4000 and 3000 series radios seamlessly connect agencies and departments throughout your city for fast, interoperable communications.

Built on a rugged, reliable platform, the APX 4000 is engineered to survive in the real world, with a screen made from tough Gorilla Glass. Equipped with dual microphones, noise cancellation and powerful audio processing the APX 4000 delivers great audio in noisy conditions.

With no display or speaker, the APX 3000 is designed to be used with earpieces and remote PTT buttons for covert operations.

But we know its not just about the audio and reliability, which is why we also included advanced features - like hardware-based encryption, Mission-Critical Bluetooth, GPS location-tracking and IMPRES smart battery support.



#### **APX 4000XH**

BUILT SAFE. INSIDE AND OUT.

Single-band HazLoc portable radio for Canada.



#### **APX 4000**

BETTER EQUIPPED FOR CLOSER COLLABORATION.

Single-band portable radio for first responders.



#### **APX 3000**

STAY SAFE, CONNECTED AND DISCREET

Specialized covert radio for undercover teams.

#### **APX 4500**

BETTER EQUIPPED FOR CLOSER CONNECTIVITY.

Single-band mobile radio.





# APX 900 AND APX 1000 SERIES SINGLE-BAND P25 PORTABLE AND MOBILE RADIOS

#### P25 CONNECTIVITY. EXCEPTIONAL PRICE.

From city festivals to natural disasters, seamless communication is critical to coordinating effective and safe responses. The APX 900 and APX 1000 series radios are simple to use and are certified for reliable P25 communication on P25 compliant radio networks.

The APX 1000 comes with a simplified feature set that's easily accessible through the one-knob user interface; it's a radio that your teams will quickly master.

The APX 900 provides additional ruggedness and complies with P25 encryption algorithms, so you can collaborate confidently and securely between agencies.

The APX 1500 mobile radio provides rugged simplicity with built-in loud and clear speaker, full color display and single knob controls. This self-contained dash-mount configuration is easy to install in most vehicles.



APX 1000 SIMPLE. EASY. MISSION-CRITICAL. Single-knob, single-band portable radio.



APX 900
ESSENTIAL
COMMUNICATION.
EXCEPTIONAL
SERVICE.

Dual-knob, single-band portable radio.



APX 1500
SIMPLE. EASY-INSTALL.
MISSION-CRITICAL.
Single-band mobile radio.



## **APX ACCESSORIES**







**ENERGY** 

**CARRY** 





**MOBILE** 

**COVERT** 

## **APX CONTROL HEADS**

MOBILE RADIOS ARE IDEAL FOR MANY APPLICATIONS, FROM A SIMPLE IN-CAR INSTALLATION, TO A WEATHERPROOF MOTORCYCLE MOUNT, TO A MULTI-HEAD FIRE TRUCK SYSTEM, TO A DESKTOP DISPATCH POSITION. WHATEVER YOU NEED, OUR PORTFOLIO OF CONTROL HEADS HELPS YOU GET THE MOST FROM YOUR RADIO.



#### INTEGRATED MULTI-FUNCTIONALITY

The 07 is a sophisticated control head with a color display and built-in keypad. It can integrate with your vehicle controls for a single ergonomic interface.



#### **EXTREME USABILITY**

The O2 control head provides rugged simplicity for efficient and confident communication.



#### **BEST-IN-CLASS READABILITY**

The E5 control head has a bright hi-res display combined with intelligent use of colors to provide all the information you need at-a-glance, day or night.



#### HANDHELD FLEXIBILITY

The 03 corded control head fits all your mobile controls in your hand. With the 03 your radio controls are never out of reach.



## **APX PORTABLE RADIOS**

		SMART APX NEXT Series	ALL-BAND APX 8000 Series	SINGLE-BAND APX 6000 Series & SRX 2200	SI APX 4000XH	NGLE-BA	AND APX 3000	SINGLE APX 1000	-BAND APX 900
FREQUENCY BANDS		74 XXXXX CONCC	711 A 0000 001100	711 X 3333 CO1133 C C11X EE33	711 74 15557111	711 71 1000	711 71 0000	711 X 1000	711 71 000
VHF	136-174 MHz	(Y)	(Y)	(Y)		(Y)	(Y)	(Y)	(Y)
UHF Range 1	380-470 MHz	(Y)	(Y)	(Y)	_	(Y)	(Y)	(Y)	(Y)
UHF Range 2	450-512 MHz	(Y)	(Y)	(Y)	-	(Y)	(Y)	(Y)	(Y)
700/800 MHz	762-870 MHz	(Y)	(Y)	(Y)	_	(Y)	(Y)	(Y)	(Y)
900 MHz	896-902, 935-941MHz	-	-	-	-	(Y)	- 1.7	(Y)	(Y)
8/900 MHz	851-870 and 935-940 MHz bands	-	-	-	Y	- (.,	-	-	-
All-Band	VHF, UHF R1, UHF R2, 700/800 simultaneously	Υ	Υ	-	-		_	_	
Number of Channels	Max number of channels programmable	3000	3000	1000 (3000)	512 (1000)	512 (1000)	512	512	512
					(/				
OPERATION MODES									
Analog Conventional	FM analog non-trunked communications	Y	Y	Y	Y	Υ	Y	-	-
Analog Trunking	SmartNet, SmartZone, QCII	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	-	-
Digital P25 Phase I	FDMA, Conventional and Trunking	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
Digital P25 Phase II	TDMA Trunking	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
Dynamic Dual Mode	Automatic switching between P25 Phase I and II	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
IV&D	Integrated Voice and Data	Υ	Υ	Υ	Y	Y	Y	Υ	Y
ENVIRONMENTAL									
Ingress Protection	Sealing against dust and water	IP68: 2 m, 4 hr	APX 8000HXE & XE - IP68: 2 m, 4 hr APX 8000H & 8000 -	APX 6000XE & SRX 2200 - IP68: 2 m, 4 hr APX 6000 - IP68: 2 m, 2 hr	IP68: 2 m, 2 hr	IP67	IP67	IP54	IP68: 2 m, 2 hr
Delta-T Testing	Differential temperature sealing test	Y	IP68: 2 m, 2 hr  APX 8000HXE & XE - Y	APX 6000XE & SRX 2200 - Y	-	(Y)	-	-	
HazLoc	Hazardous location certification	(Class I, Div 2)	APX 8000H & 8000 - (Y)  APX 8000HXE & H -  Class I, Div 1 & 2	APX 6000 - (Y)  Class I, Div 1 & 2	CSA 157	(Class I,		(Class I,	(Class I,
	Trazardous location certification		APX 8000XE, (8000) - Class I, Div 2		03A 137	Div 1 & 2)		Div 1 & 2)	Div 1 & 2)
AUDIO	Dimensional Control	V	V	0.0					
	Dynamic optimization of noise suppression	Y	Y	(Y)	-	-	-	-	
Number of Microphones	Support for multi-mic noise suppression	3	3	3	2	2	-	2	1
Output Power	Maximum rated audio power	3 W	3 W	500 mW (3 W)	500 mW	500 mW	-	500 mW	500 mW
				, ,					
SECURITY, SAFETY					_		/0FC L:+ AFC		
Algorithms	Supported encryption algorithms	(256-bit AES, ADP, DES, DES-XL, DES-OFB, DVP-XL)	(256-bit AES, ADP, DES, DES-XL, DES-0FB, DVP-XL)	(256-bit AES, ADP, DES, DES-XL, DES-OFB, DVP-XL)	ADP	(256-bit AES, ADP)	(256-bit AES, ADP, DES, DES-XL, DES-OFB, DVP-XL)	(ADP)	(256-bit AES SW, ADP)
8.4. July	Number of programmable keys	128	128	64	1	40	48	8	8
Multikey	realibor of programmable keys	120	120	04	1	48	40	0	0
Multikey Method	Encryption implementation	Hardware	Hardware	Hardware	'	Hardware			ware
Method	Encryption implementation	Hardware FIPS 140-2 Level 3	Hardware	Hardware		Hardware	-	Softv FIPS 140-	ware -2 Level 1
Method Encryption Standards	Encryption implementation Level of encryption offered	Hardware FIPS 140-2 Level 3 FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197			FIPS 197	Soft	ware -2 Level 1
Method	Encryption implementation	Hardware FIPS 140-2 Level 3	Hardware	Hardware		Hardware	-	Softv FIPS 140-	ware -2 Level 1
Method Encryption Standards	Encryption implementation Level of encryption offered	Hardware FIPS 140-2 Level 3 FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197		Hardware	FIPS 197	Softv FIPS 140-	ware -2 Level 1
Method Encryption Standards Over-the-Air Rekeying	Encryption implementation Level of encryption offered	Hardware FIPS 140-2 Level 3 FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197	Hardware FIPS 140-2 Level 3, FIPS 197		Hardware	FIPS 197	Softv FIPS 140-	ware -2 Level 1
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY	Encryption implementation Level of encryption offered Remote update of encryption keys	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)	FIPS 14	Hardware 40-2 Level 3, -	FIPS 197 (Y)	Softv FIPS 140- FIPS	ware -2 Level 1 197 -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi)	FIPS 14	Hardware 40-2 Level 3, - - -	FIPS 197 (Y)	Softv FIPS 140- FIPS -	ware -2 Level 1 197 - -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	FIPS 14	Hardware 40-2 Level 3, -	FIPS 197 (Y)	Softv FIPS 140- FIPS -	ware -2 Level 1 197 -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi)	FIPS 14	Hardware 40-2 Level 3, - - -	FIPS 197 (Y)	Softv FIPS 140- FIPS -	ware -2 Level 1 197 - -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth	Encryption implementation  Level of encryption offered  Remote update of encryption keys  Broadband network support  Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories  Data offload to external modem via WiFi	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	FIPS 14	Hardware 40-2 Level 3, - - -	FIPS 197 (Y)	Softv FIPS 140- FIPS -	ware -2 Level 1 197 - -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering	Encryption implementation  Level of encryption offered  Remote update of encryption keys  Broadband network support  Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories  Data offload to external modem via WiFi	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP	FIPS 14	Hardware 40-2 Level 3, - - -	FIPS 197 (Y)	Softv FIPS 140- FIPS -	ware -2 Level 1 197 - -
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - Y	ware -2 Level 1 197 4.0 LE
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y)	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - - Y	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0 - Y - Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y) -	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - - - - - - - - -	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0 - Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y)	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - - Y	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0 - Y - Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y) -	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - - - - - - - - -	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartLocate SmartMapping	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0 - Y - Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y) -	FIPS 197 (Y)	Softv FIPS 140- FIPS - - - - - - - - - - - - - -	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y)	FIPS 197 (Y)  2.1 - Y (Y)	Softv FIPS 140- FIPS - - - - - - - - - - - -	vare 2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viûi Virtual Partner	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y)	FIPS 197 (Y)  2.1 - Y (Y)	Softv FIPS 140- FIPS - - - - - - - - - - - - -	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)  - (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - Y (Y)	FIPS 197 (Y)  2.1 - Y (Y)	Softvi FIPS 140-FIPS	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control SmartMessaging	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)  (Y) (Y)	Hardware FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi) (via WiFi) 4.0 MPP  (Y)  Y  (Y)  (Y)  (Y)	FIPS 14	Hardware 40-2 Level 3,	FIPS 197 (Y)	Softv FIPS 140-FIPS	
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)  (Y) (Y) (Y)	Hardware FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi) (via WiFi) 4.0 MPP  (Y)  Y  (Y)  (Y)  - (Y)  - (Y)  - (Y)  - (Y)	FIPS 14	Hardware 40-2 Level 3,	FIPS 197 (Y)  2.1 - Y (Y)	Softv FIPS 140- FIPS	
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control SmartMessaging RFID Voice Announcement	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) (Y) - (Y)	Hardware FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi) (via WiFi) 4.0 MPP  (Y)  Y  (Y)  (Y) (Y) - (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 (Y) (Y) Y	FIPS 197 (Y)	Softv FIPS 140- FIPS	
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) -	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) (Y) Y (Y) Y Y Y Y Y Y Y Y Y Y	FIPS 14	Hardware 40-2 Level 3, 2.1	FIPS 197 (Y)	Softv FIPS 140- FIPS	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) -	Hardware FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi) (via WiFi) 4.0 MPP  (Y)  Y  (Y)  (Y) -	FIPS 14	Hardware 40-2 Level 3, 2.1 (Y) (Y) Y Y Y Y Y	FIPS 197 (Y)	Softv FIPS 140- FIPS	vare
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  -  Y - Y (Y)  (Y)  (Y)  (Y)  (Y)  Y Y Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) -	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y)  Y (Y)  Y Y (Y)  Y (Y) (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - (Y) (Y) (Y) Y Y Y Y (Y)	FIPS 197 (Y)	Softv FIPS 140-FIPS	vare 2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  -  Y - Y (Y)  (Y)  (Y)  (Y)  (Y)  Y Y Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) -	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y)  Y (Y)  Y Y (Y)  Y (Y) (Y)	FIPS 14	Hardware 40-2 Level 3, 2.1 - (Y) (Y) (Y) Y Y Y Y (Y)	FIPS 197 (Y)	Softv FIPS 140-FIPS	vare 2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2 DISPLAY & KEYPAD	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology, CONFIGURATION MODELS	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0 -  Y - Y (Y)  (Y)  (Y)  (Y)  (Y)  (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y) - (Y) - (Y) Y Y (Y) Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi) (via WiFi) 4.0 MPP  (Y)  Y  (Y)  (Y)  - (Y)  Y  Y  (Y)  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y	FIPS 14	Hardware 40-2 Level 3, 2.1 (Y) (Y) Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y N	FIPS 197 (Y)	Softv FIPS 140-FIPS	
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2 DISPLAY & KEYPAD 4.5: Touchscreen and to	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,  CONFIGURATION MODELS Options of the programmable programmab	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y) Y Y Y (Y) Y Y Y (Y) (Y) Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) (Y) Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	FIPS 14	Hardware 40-2 Level 3, 2.1 (Y) (Y) Y Y Y Y Y Y Y Y Y Y	FIPS 197 (Y)	Softv FIPS 140-FIPS	
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viūi Virtual Partner Viūi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2 DISPLAY & KEYPAD 4.5: Touchscreen and to 3.5: Front display, full k 2.5: Front display, limite	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,  CONFIGURATION MODELS Options of the programmable programmab	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)  Y Y (Y)  - (Y)  Y Y (Y)  - (Y)  Y Y (Y)  Y Y (Y) Y Y (Y) Y Y (Y) Y Y (Y) Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y)  Y Y (Y)  - (Y)  Y Y (Y)  Y (Y)  Y (Y)  Y (Y) (Y) (	FIPS 14	Hardware 40-2 Level 3, 2.1 (Y) (Y) Y Y Y Y Y Y Y Y	FIPS 197 (Y)	Softv FIPS 140- FIPS	vare -2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viū Virtual Partner Viū Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2  DISPLAY & KEYPAD 4.5: Touchscreen and tr 3.5: Front display, full k 2.5: Front display, limitt 1.5: Top display only	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,  CONFIGURATION MODELS up display ed keypad, top display	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  -  Y - Y (Y)  (Y)  (Y)  (Y)  Y Y Y Y Y Y Y N/Y  Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) - (Y) Y Y Y (Y) Y Y Y (Y) (Y) Y Y Y Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) (Y) Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	FIPS 14	Hardware 40-2 Level 3, 2.1 - (Y) (Y) Y Y Y Y Y Y (Y) Y	FIPS 197 (Y)	Softv FIPS 140-FIPS	vare 2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES ViQi Virtual Partner ViQi Voice Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2 DISPLAY & KEYPAD 4.5: Touchscreen and to 3.5: Front display, full key 1.5: Top display, full key 3: Front display, full key	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,  CONFIGURATION MODELS pot display de keypad, top display	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  -  Y - Y (Y)  (Y)  (Y)  (Y)  Y Y Y Y Y Y Y - Y N/Y  Y Y N/Y	Hardware  FIPS 140-2 Level 3, FIPS 197  (Y)  (WiFi)  (via WiFi)  4.0 MPP  (Y)  Y  (Y)  (Y)  Y  Y  (Y)  - (Y)  Y  (Y)  (Y)  (Y)  (Y)  (Y)  (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y) (Y) Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	FIPS 14	Hardware 40-2 Level 3, 2.1 - (Y) (Y) Y Y Y Y (Y) Y Y (Y)	FIPS 197 (Y)	Softv FIPS 140-FIPS	vare 2 Level 1 197
Method Encryption Standards Over-the-Air Rekeying CONNECTIVITY Broadband SmartConnect Bluetooth Data Modem Tethering LOCATION-TRACKIN GPS/GLONASS Mission-Critical Geofence SmartLocate SmartMapping OTHER FEATURES Viū Virtual Partner Viū Vioce Control SmartMessaging RFID Voice Announcement Intelligent Lighting Instant Recall Man Down IMPRES / IMPRES 2  DISPLAY & KEYPAD 4.5: Touchscreen and tr 3.5: Front display, limitr 1.5: Top display only	Encryption implementation Level of encryption offered Remote update of encryption keys  Broadband network support Seamlessly switch between P25 and broadband Secure personal area network, for wireless accessories Data offload to external modem via WiFi  G Receiver for radio location-tracking Automated responses to changes in radio location Route location data over broadband Mapping app to locate other radios  Database query using virtual assistant Operate radio using spoken commands Multimedia messaging Embedded wireless inventory tracking tag Audio announcement of change in radio status Programmable display backlight color alert Replay of last received call Programmable response to movement & orientation Intelligent battery and charging technology,  CONFIGURATION MODELS per display de keypad, top display	Hardware FIPS 140-2 Level 3 FIPS 197 (Y)  LTE, WiFi (via LTE) 5.0  -  Y - Y (Y) (Y) (Y) (Y) (Y) Y - Y Y - Y Y - Y - Y	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y) (Y) - (Y) Y Y (Y) - (Y) Y (Y) (Y)	Hardware FIPS 140-2 Level 3, FIPS 197 (Y)  (WiFi) (via WiFi) 4.0 MPP (Y)  Y (Y)  (Y)  - (Y)  Y  Y  (Y)  - (Y)  Y  Y  (Y)  Y  (Y)  Y  (Y)  Y  (Y)  Y  (Y)  Y  Y  (Y)  Y  Y  (Y)  Y  Y  (Y)  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y	FIPS 14	Hardware 40-2 Level 3, 2.1 - (Y) (Y) Y Y Y Y Y Y (Y) Y	FIPS 197 (Y)	Softv FIPS 140-FIPS	vare 2 Level 1 197

## **APX MOBILE RADIOS**

		ALL-BAND	SINGLE-BAND	SINGLE-BAND	SINGLE-BAND
		APX 8500	APX 6500	APX 4500	APX 1500
FREQUENCY BANDS				•	
VHF	Operation in 136-174 MHz band	Y	(Y)	(Y)	(Y)
UHF Range 1	Operation in 380-470 MHz band	Y	(Y)	(Y)	(Y)
UHF Range 2	Operation in 450-512 MHz band	Y	(Y)	(Y)	(Y)
700/800 MHz	Operation in 762-870 MHz band	Y	(Y)	(Y)	(Y)
900 MHz	Operation in 896-941MHz band	<u>'</u>	-	(Y)	-
All-Band	VHF, UHF R1, UHF R2, 700/800 simultaneously	Y	-	-	-
Number of Channels	· · · · · · · · · · · · · · · · · · ·	3000	1000 (3000)		512
	Max number of channels programmable		-	512 (1000)	- 512
High-power Version	Availability of 110 W radio variant	(Y)	-	-	-
PERATION MODES					
Analog Conventional	FM analog non-trunked communications	Υ	Υ	Υ	-
Analog Trunking	SmartNet, SmartZone, QCII	(Y)	(Y)	(Y)	-
ligital P25 Phase I	FDMA, Conventional and Trunking	(Y)	(Y)	(Y)	Υ
ligital P25 Phase II	TDMA Trunking	(Y)	(Y)	(Y)	(Y)
	Automatic switching between P25 Phase I and II	(Y)	(Y)	(1)	(1)
		Y	(†) Y	- Y	- Y
/&D	Integrated Voice and Data	Y	Ť	Y	Ť
\UDIO					
	Manipular and souling account	7.5 W, 8 Ω	7.5 W, 8 Ω	7.5 W, 8 Ω	7.5 W, 8 Ω
Audio Output Power	Maximum rated audio power	15 W, 3.2 Ω	15 W, 3.2 Ω	15 W, 3.2 Ω	15 W, 3.2 Ω
NEGLIDIEN GAREETI					
SECURITY, SAFETY	Cupported appropriate algorithms	(SEC PIT VEC AND DEC DAN)	(256-bit AES, ADP, DES, DVP)	(2EC bit AEC ADD DEC DVD)	256-bit AES SW, ADP
Algorithms	Supported encryption algorithms	(256-bit AES, ADP, DES, DVP)	(250-DIT AES, ADF, DES, DVF)	(256-bit AES, ADP, DES, DVP)	
Algorithm Capacity	Number of simultaneous encryption schemes	8		8	8
Multikey	Number of programmable keys	128	64	8	8
Method	Encryption implementation	Hardware & Software	Hardware & Software	Hardware & Software	Software
ncryption Standards	Level of encryption offered	FIPS 140-2 Level 3 FIPS 197	FIPS 140-2 Level 3 FIPS 197	FIPS 140-2 Level 3 FIPS 197	FIPS 140-2 Level 1 FIPS 197
Over-the-Air Rekeying	Remote update of encryption keys	(Y)	(Y)	-	-
CONNECTIVITY					
ViFi	Local area network support	(Y)	(Y)	(Y)	-
SmartConnect	Seamless switch between P25 and broadband	(tethered, or via WiFi)	(tethered, or via Wi-Fi)	-	_
	Data offload to external modem such as LTE,				-
Data Modem Tethering	Wi-Fi or satellite	(Y)	(Y)	(Y)	-
OCATION-TRACKING					
GPS/GLONASS	Receiver for radio location-tracking	Y	Y	Y	Y
Mission-Critical Geofence	Automated responses to changes in radio location	(Y)	(Y)	(Y)	(Y)
OTHER FEATURES /iQi Virtual Partner	Database quany using virtual assistant	/V)	(V)		
	Database query using virtual assistant	(Y)	(Y)	- (V)	- /V\
RFID	Embedded wireless inventory tracking tag	(Y)	(Y)	(Y)	(Y)
/oice Announcement	Audio announcement of change in radio status	Y	Y	Y	Y
nstant Recall	Replay of last received call	Y	Y	Y	Y
ntelligent Lighting	Programmable display backlight color alert	(Y)	(Y)	(Y)	-
mpact Detection	Automatic alert to a collision	(Y)	(Y)	(Y)	-
CONTROL UTAR CONTROL					
CONTROL HEAD COMPAT	BILITY	0.0	(5.0)		
77 Enhanced Control Head		(Y)	(Y)	-	-
5 Control Head		(Y)	(Y)	*	-
05 Standard Control Head		(Y)	(Y)	-	-
03 Handheld Control Head		(Y)	(Y)	-	-
02 Rugged Control Head (Greer	n/Gray)	(Y)	(Y)	Υ	Gray Only

<sup>( )</sup> indicates optional feature



#### **ALL THE SUPPORT YOU NEED**

#### MANAGE YOUR APX RADIOS IN THE WAY THAT SUITS YOU BEST

Motorola Solutions offers flexible services consumption options to manage your mission critical communication systems. From hardware repair to preventive maintenance, technical support to programming and provisioning, our services ensure that your radio fleet is fully operational and available for end-users. The services are centrally delivered with the right combination of people, process and tools.

For more information, please visit us on the web at: www.motorolasolutions.com/APX

