APX® SINGLE-BAND CONSOLETTE

900MHZ

MOTOROLA SOLUTIONS

TRANSMITTER SPECIFICATIONS

	900 MHz
Frequency Range	896-902 MHz 935-941 MHz
Channel Spacing	12.5 kHz
Maximum Frequency Separation	Full Bandsplit
Rated RF Output Power*	1-30 W (896-901, 935-940 MHz) 1-3 W (901-902, 940-941 MHz)
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.8 PPM
Modulation Limiting*	±2.5 kHz
Modulation Fidelity (C4FM)	1.5%
Conducted Emissions*	-70 dBc
Radiated Emissions*	-20 dBm
Audio Response*	+1 / -3 dB (EIA)
FM Hum and Noise	-45 dB
Audio Distortion*	2%

DIMENSIONS

Standard Model	16.0 x 18.0 x 4.2 in (406 x 457 x 107 mm), W x D x H 18.5 lbs (8.4 kg)
Full-Featured Model	16.0 x 18.8 x 4.2 in (406 x 476 x 107 mm), W x D x H 19.5 lbs (8.9 kg)

FEATURES AND CAPABILITIES

STANDARD	OPTIONAL
900 MHz Band	Enhanced Encryption Software
Up to 50 W Output Power	Programming over Project 25 (POP25)
Clear or Encrypted Digital P25 Trunked Operation	Text Messaging
SmartZone®, SmartZone Omnilink, SmartNet® Analog Trunked Operation	Over the Air Rekeying (OTAR)
Digital P25 Conventional Operation	Extended Dispatch Operation including:
Analog MDC-1200 Conventional Operation	• Emergency Alarm ACK Encode • Radio Inhibit/Uninhibit Encode
Intelligent Lighting	• Radio Monitor Encode • Radio Check Encode
Unified Call List	• Status Query Encode • Status Query Response Decode
Tone Remote Control	• Status Update Decode
110/240 VAC power with battery revert capability	• Message Update Decode

RECEIVER SPECIFICATIONS

	900 MHz
Frequency Range	935-941 MHz
Channel Spacing	12.5 kHz
Maximum Frequency Separation	Full Bandsplit
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	0.8 PPM
Analog Sensitivity* (12 dB SINAD)	-120 dBm
Digital Sensitivity (5% BER)	-121.5 dBm
Intermodulation	82 dB
Spurious Rejection	91 dB
Selectivity	74 dB
Audio Output at 3% Distortion	2.5 W (internal), 7.5 W (8 ohm), 15 W (3.2 ohm)
Audio Distortion at Rated Power	2%

ENVIRONMENTAL

Operating Temperature	-22 oF to 140 °F (-30 °C to +60 °C)
Storage Temperature	-40 °F to 185 °F (-40 °C to +85 °C)
Humidity	95% relative humidity
Electrostatic Discharge (ESD)	Per IEC 61000-4-2
Duty Cycle	Per EIA/TIA Intermittent Duty Cycle

ENCRYPTION

Supported Encryption Algorithms	ADP, AES, DES, DES-XL, DES-OFB, DVP-XL
Encryption Algorithm Capacity	8
Encryption Keys per Radio	Module capable of storing 1024 keys. Programmable for 128 Common Key Reference (CKR) or 16 Physical Identifier (PID)
Encryption Frame Re-sync Interval	P25 CAI 300 mSec
Encryption Keying	Key Loader
Synchronization	XL – Counter Addressing OFB – Output Feedback
Vector Generator	National Institute of Standards and Technology (NIST) approved random number generator
Encryption Type	Digital
Key Storage	Tamper protected volatile or non-volatile memory
Key Erasure	Keyboard command and tamper detection
Standards	FIPS 140-3 Level 3, FIPS 197

USER INTERFACE	
STANDARD MODEL	FULL-FEATURED MODEL

4-line Tri-color LCD Display
    • 1 line radio status icons
    • 2 lines text, up to 14
      characters per line
    • 1 line soft menu key legends	

5 Programmable Soft Keys	Adds Auxiliary User Interface:
	    • Clock and VU Meter
	    • Crosspatch Interface
	    • Auxiliary Controls
	    • Secondary Microphone Connector

Navigation Pad	
Volume Knob	
Mode Selector	
Emergency Button	
Microphone Connector	

INTERFACES	
FRONT	REAR
Microphone Connector	Recorder
Secondary Microphone (Full-Featured Model)	Wireline
	Interface Port
	Crosspatch
	Power

* Measured in the analog mode per TIA/EIA 603 under nominal conditions
Specifications subject to change without notice. All specifications shown are typical values

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