

APX™ SINGLE-BAND CONSOLETTTE

VHF



TRANSMITTER SPECIFICATIONS

	VHF
Frequency Range	136-174 MHz
Channel Spacing	25 / 12.5 kHz
Maximum Frequency Separation	Full Bandsplit
Rated RF Output Power*	1-50 W
Frequency Stability* (-30 °C to +60 °C, +25 °C Ref)	±0.8 ppm
Modulation Limiting*	±5 / ±2.5 kHz
Modulation Fidelity (C4FM)	2.5%
Conducted Emissions*	-85 dBc
Radiated Emissions*	-20 dBm
Audio Response*	+1 / -3 dB (EIA)
FM Hum and Noise	-52 / -51 dB
Audio Distortion*	2%

DIMENSIONS

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

RECEIVER SPECIFICATIONS

	VHF
Frequency Range	136-174 MHz
Channel Spacing	25 / 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)	-119 dBm (standard) -123 dBm (pre-amp)
Digital Sensitivity (5% BER)	-119 dBm (standard) -123 dBm (pre-amp)
Intermodulation	82 dB
Spurious Rejection	91 dB
Selectivity	85 / 75 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 SPECIFICATIONS

Operating Temperature	-22 °F 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

FEATURES AND CAPABILITIES

STANDARD	OPTIONAL
VHF 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	
Analog MDC-1200 Conventional Operation	Extended Dispatch Operation including: <ul style="list-style-type: none"> • Emergency Alarm ACK Encode • Radio Inhibit/Uninhibit Encode • Radio Monitor Encode • Radio Check Encode • Status Query Encode • Status Query Response Decode • Status Update Decode • Message Update Decode
Intelligent Lighting	
Unified Call List	
Tone Remote Control	
110/240 VAC power with battery revert capability	

USER INTERFACE

STANDARD MODEL	FULL-FEATURED MODEL
4-line Tri-color LCD display <ul style="list-style-type: none"> • 1 line radio status icons • 2 lines text, up to 14 characters per line • 1 line soft menu key legends 	Adds Auxiliary User Interface: <ul style="list-style-type: none"> • Clock and VU Meter • Crosspatch Interface • Auxiliary Controls • Secondary Microphone Connector
5 programmable soft keys	
Navigation Pad	
Volume knob	
Mode Selector	
Emergency Button	
Microphone Connector	

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 140-2 Level 3 FIPS 197

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

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



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