

# APX™ SINGLE-BAND CONSOLETTTE

**WIRELESS  
DISPATCH**



## TRANSMITTER SPECIFICATIONS

	900 MHz	VHF
Frequency Range	896-902 MHz 935-941 MHz	136-174 MHz
Channel Spacing	12.5 kHz	25 / 12.5 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit
Rated RF Output Power*	1-30 W (896-901, 935-940 MHz) 1-3 W (901-902, 940-941 MHz)	1-50 W
Frequency Stability* (-30 °C to +60 °C, +25 °C Ref)	±0.8 ppm	±0.8 ppm
Modulation Limiting*	±2.5 kHz	±5 / ±2.5 kHz
Modulation Fidelity (C4FM)	1.5%	2.5%
Conducted Emissions*	-70 dBc	-85 dBc
Radiated Emissions*	-20 dBm	-20 dBm
Audio Response*	+1 / -3 dB (EIA)	+1 / -3 dB (EIA)
FM Hum and Noise	-45 dB	-52 / -51 dB
Audio Distortion*	2%	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)
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## RECEIVER SPECIFICATIONS

	900 MHz	VHF
Frequency Range	935-941 MHz	136-174 MHz
Channel Spacing	12.5 kHz	25 / 12.5 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit
Frequency Stability* (-30 °C to +60 °C, +25 °C Ref)	0.8 ppm	±0.8 ppm
Analog Sensitivity* (12 dB SINAD)	-120 dBm	-119 dBm (standard) -123 dBm (pre-amp)
Digital Sensitivity (5% BER)	-121.5 dBm	-119 dBm (standard) -123 dBm (pre-amp)
Intermodulation	82 dB	82 dB
Spurious Rejection	91 dB	91 dB
Selectivity	74 dB	85 / 75 dB
Audio Output at 3% Distortion	2.5 W (internal) 7.5 W (8 ohm) 15 W (3.2 ohm)	2.5 W (internal) 7.5 W (8 ohm) 15 W (3.2 ohm)
Audio Distortion at Rated Power	2%	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

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

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

FEATURES AND CAPABILITIES	
STANDARD	OPTIONAL
900 MHz or 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"> <li>• Emergency Alarm ACK Encode</li> <li>• Radio Inhibit/Uninhibit Encode</li> <li>• Radio Monitor Encode</li> <li>• Radio Check Encode</li> <li>• Status Query Encode</li> <li>• Status Query Response Decode</li> <li>• Status Update Decode</li> <li>• Message Update Decode</li> </ul>
Intelligent Lighting	
Unified Call List	
Tone Remote Control	
110/240 Vac power with battery revert capability	

\* 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](http://www.motorolasolutions.com/APX)

