# MOTOROLA SOLUTIONS



## COALINGA, CITY OF

New Sheriff Base Radio

07/26/2022

**MOTOROLA** *SOLUTIONS*

Billing Address:
COALINGA, CITY OF
270 N SIXTH ST
COALINGA, CA 93210
US

Quote Date:07/26/2022

Expiration Date:09/01/2022

Quote Created By:
Randy Emerzian
randye@js-comm.com

End Customer:
COALINGA, CITY OF
Jose Garza
jgarza@coalinga.com
(559)935-1525 ext. 152

Contract:  17724 - HGAC (TX)-RA05-21

| Line # | Item Number | Description | Qty | List Price | Sale Price | Ext. Sale Price |
|---|---|---|---|---|---|---|
| | | APX™ Consolette | | | | |
| 1 | L37TSS9PW1AN | ALL BAND CONSOLETTE | 1 | $9,551.00 | $6,972.23 | $6,972.23 |
| 1a | L998AB | ADD: LIMITED FRONT PANEL W/CLOCK/VU | 1 | $528.00 | $385.44 | $385.44 |
| 1b | G48BB | ENH: CONVENTIONAL OPERATION APX | 1 | $880.00 | $642.40 | $642.40 |
| 1c | GA00469AA | ENH:EXTENDED DISPATCH APX CONSOLETT | 1 | $550.00 | $401.50 | $401.50 |
| 1d | CA01598AB | ADD: AC LINE CORD US | 1 | $0.00 | $0.00 | $0.00 |
| 1e | GA05507AA | DEL: DELETE 7/800MHZ BAND | 1 | -$800.00 | -$584.00 | -$584.00 |
| 1f | GA05509AA | DEL: DELETE UHF BAND | 1 | -$800.00 | -$584.00 | -$584.00 |
| 1g | G78AR | ADD: 3Y ESSENTIAL SERVICE | 1 | $176.00 | $176.00 | $176.00 |
| 1h | G843AH | ADD: AES ENCRYPTION AND ADP | 1 | $523.00 | $381.79 | $381.79 |
| 1i | G806BL | ENH: ASTRO DIGITAL CAI OP APX | 1 | $567.00 | $413.91 | $413.91 |
| 1j | W969BG | ADD: MULTIKEY OPERATION | 1 | $363.00 | $264.99 | $264.99 |
| 2 | HKN6233C | APX CONSOLETTE RACK MOUNT KIT | 1 | $200.00 | $146.00 | $146.00 |

**MOTOROLA** *SOLUTIONS*

| | |
|---|---:|
| Subtotal | $8,616.26 |
| Estimated Tax | $773.31 |
| Estimated Freight | $94.77 |
| **Grand Total** | **$9,484.34(USD)** |

# Notes:

**MOTOROLA** SOLUTIONS

## Purchase Order Checklist

**Marked as PO/ Contract/ Notice to Proceed on Company Letterhead**
**(PO will not be processed without this)**

**PO Number/ Contract Number**

**PO Date**

**Vendor = Motorola Solutions, Inc.**

**Payment (Billing) Terms/ State Contract Number**

**Bill-To Name on PO must be equal to the *Legal* Bill-To Name**

**Bill-To Address**

**Ship-To Address (If we are shipping to a MR location, it must be documented on PO)**

**Ultimate Address (If the Ship-To address is the MR location then the Ultimate Destination address must be documented on PO )**

**PO Amount must be equal to or greater than Order Total**

**Non-Editable Format (Word/ Excel templates cannot be accepted)**

**Bill To Contact Name & Phone # and EMAIL for customer accounts payable dept**

**Ship To Contact Name & Phone #**

**Tax Exemption Status**

**Signatures (As required)**

# APX® ALL-BAND CONSOLETTE

Racing to an emergency or repairing a power outage, every moment matters as you mount a response. The right control station can make all the difference in making sure communications are clear, continuous and coordinated — across multiple users, agencies and miles.

The APX All-Band Consolette is the ideal complement to your dispatch console. It's the low cost, mid-power wireless control station for an ASTRO® 25 system. You can use it as an emergency backup station when infrastructure is off-line, or for wireless access to different system types for increased interoperability between agencies.

**MOTOROLA** SOLUTIONS

## CONNECT WITH CONFIDENCE

Designed around proven APX technology, the Consolette combines forward-thinking technology with time-tested functionality. Project 25 Phase 2 technology delivers twice the voice capacity so you can add more users without adding more frequencies or infrastructure. Talk with confidence to a squad car or desk station, a job site across town or an incident in the next county.

And with Wi-Fi, the Consolette keeps your team in touch and within reach of over-the-air updates. Receive new codeplugs, firmware updates and software features at the speed of Wi-Fi—without interruptions to voice communication.

## MIGRATE AT YOUR OWN PACE

The APX All-Band Consolette is backwards and forwards compatible, developed to meet current P25 standards and future-ready to support new technology and data applications. Now you can achieve your interoperability objectives—whether upgrading an existing system or designing a new one—based on your dollars and deadlines.

## BUILT FOR THE TOUGHEST TASKS

Innovative design and skillful engineering make the APX All-Band Consolette a tireless performer. The robust metal housing assures extra durability, but allows for easy servicing and programming without removing the lid. An integrated front panel numeric keypad gives you fast access to radio controls. And it meets stringent FCC and UL certifications for exceptional safety.

## ROBUST AND MISSION-READY

When you lose power, count on the automatic battery revert feature to keep your people connected. All you need is a DC source, such as a marine battery, and the Consolette will switch over automatically to keep communications strong.

Rich in features, the APX All-Band Consolette gives you the largest number of interface connections to a wide variety of consoles and desk sets, and easy access to contact information with one unified call list. What's more, an ACIM wireless interface provides back-up dispatch if your console's link to the ASTRO 25 trunked system is ever lost.



## STANDARD FEATURES

Available in 700/800 MHz, VHF or UHF (R1/R2) bands

Optional multiband operation

2000 Channels

Trunking Standards supported:

- Clear or digitally encrypted ASTRO® 25 Trunked Operation
- Capable of SmartZone®, SmartZone Omnilink, SmartNet®

Analog MDC-1200 and Digital APCO P25

Conventional System Configurations

Narrow and wide bandwidth digital receiver (6.25 kHz equivalent/12.5 kHz/30 kHz/25 kHz)*

Embedded digital signaling (ASTRO and ASTRO 25)

Integrated Encryption Hardware

Seamless Wideband Scan

Intelligent Priority Scan

Intelligent Lighting

Interfaces supported:

- Recorder
- Wireline
- Vehicle Interface Port
- Crosspatch
- Headsets (2)**

110/220 VAC operation with battery revert capability

VU Meter and Clock

Expansion Slot Standard

2 configurations available:

- Full featured front panel
- Limited front panel

Radio Profiles

Unified Call List

Tone remote control

Tactical Inhibit

Instant Recall

ACIM/CCGW interface including:

- ID decode
- Call alert encode

* Per the FCC Narrowbanding rules, new products submitted for FCC certification after January 1, 2011 are restricted from being granted certification at 25KHz for United States – State & Local Markets only.

** Available on full featured models only.

## AUXILIARY DISPLAY FEATURES

LCD display

3 soft menu buttons to activate or control the following Consolette features:

- Clock
- Volume Units Meter (VU)
- Crosspatch Linking
- Auxiliary Controls/VIP Activation
- Over-the-air Audible TX Alert Tones

## OPTIONAL FEATURES

Enhanced Encryption Software Options

Programming over Project 25 (POP25)

Text Messaging

Over the Air Rekeying (OTAR)

Wi-Fi connectivity

Extended Dispatch Operation including:

- 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

## E5 CONTROL HEAD FEATURES

Bright color display

- Easy to read 3 line display in various lighting conditions - day or night
- Large tactile knobs and navigation buttons
- 5 programmable menu soft keys and 1 programmable button

## SIGNALING (ASTRO MODE)

| | |
|---|---|
| Signaling Rate | 9.6 kbps |
| Digital ID Capacity | 10,000,000 Conventional / 48,000 Trunking |
| Digital Network Access Codes | 4,096 network site addresses |
| ASTRO Digital User Group Addresses | 4,096 network site addresses |
| Project 25 – CAI Digital User Group Addresses | 65,000 Conventional / 4,094 Trunking |
| Error Correction Techniques | Golay, BCH, Reed-Solomon codes |
| Data Access Control | Slotted CSMA: Utilizes infrastructure-sourced data status bits embedded in both voice and data transmissions. |

## DIMENSIONS

| | |
|---|---|
| W x D x H | Limited Front Panel Configuration 16" x 18" x 4.2" (406 x 457 x 107mm) Full Featured Front Panel Configuration 16" x 18.75" x 4.2" (406 x 476 x 107mm) |
| Weight | Limited Front Panel Configuration 18.9 lbs (8.6 kg) Full Featured Front Panel Configuration 19.9 lbs (9.0 kg) |

## TRANSMITTER - TYPICAL PERFORMANCE SPECIFICATIONS

| | 700 MHz | | 800 MHz | | VHF | | UHF Range 1 | | UHF Range 2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency Range/Bandsplits | 764-776 MHz, 794-806 MHz | | 806-825 MHz, 851-870 MHz | | 136-174 MHz | | 380-470 MHz | | 450-520 MHz | |
| Channel Spacing | 25/20/12.5 kHz | | 25/20/12.5 kHz | | 30/25/12.5 kHz | | 25/20/12.5 kHz | | 25/20/12.5 kHz | |
| Maximum Frequency Separation | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | |
| Rated RF Output Power[1] (Adjustable) | 1-30 Watts | | 1-35 Watts | | 1-50 Watts | | 1-40 Watts (380-470 MHz) | | 1-45 Watts (450-485 MHz) 1-40 Watts (485-512 MHz) 1-25 Watts (512-520 MHz) | |
| Frequency Stability[1] (−30°C to +85°C; +25°C Ref.) | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | |
| Modulation Limiting[1] | ±5/±2.5 kHz | | ±5/±4 kHz (NPSPAC) /±2.5 kHz | | ±5/±2.5 kHz | | ±5/±2.5 kHz | | ±5/±2.5 kHz | |
| Modulation Fidelity (C4FM) 12.5kHz Digital Channel | 1.10% | | 1.10% | | 1.10% | | 1.10% | | 1.10% | |
| Emissions[1] | Conducted −75/−85 dBc | Radiated −20/−40 dBm | Conducted −75 dBc | Radiated −20 dBm | Conducted −85 dBc | Radiated −20 dBm | Conducted −85 dBc | Radiated −20 dBm | Conducted −85 dBc | Radiated −20 dBm |
| Audio Response[1] | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | |
| FM Hum & Noise[1]    25 kHz    12.5 kHz | 50 dB 48 dB | | 50 dB 48 dB | | 53 dB 52 dB | | 53 dB 50 dB | | 53 dB 50 dB | |
| Audio Distortion[1]    20 & 25 kHz    12.5 kHz | 0.50 % 0.50 % | | 0.50 % 0.50 % | | 0.50 % 0.50 % | | 0.50 % 0.50 % | | 0.50 % 0.50 % | |

## RECEIVER – TYPICAL PERFORMANCE SPECIFICATIONS

| | 700 MHz | | 800 MHz | | VHF | | UHF Range 1 | | UHF Range 2 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency Range/Bandsplits | 764-776 MHz | | 851-870 MHz | | 136-174 MHz | | 380-470 MHz | | 450-520 MHz | |
| Channel Spacing | 25/20/12.5 kHz | | 25/20/12.5 kHz | | 30/25/12.5 kHz | | 25/20/12.5 kHz | | 25/20/12.5 kHz | |
| Maximum Frequency Separation | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | | Full Bandsplit | |
| Audio Output Power (Speaker) at 3% distortion | 2.5 W (20 Ω internal) 7.5 W (7.5 Ω) 15 W (2.3 Ω) | | 2.5 W (20 Ω internal) 7.5 W (7.5 Ω) 15 W (2.3 Ω) | | 2.5 W (20 Ω internal) 7.5 W (7.5 Ω) 15 W (2.3 Ω) | | 2.5 W (20 Ω internal) 7.5 W (7.5 Ω) 15 W (2.3 Ω) | | 2.5 W (20 Ω internal) 7.5 W (7.5 Ω) 15 W (2.3 Ω) | |
| Frequency Stability[1] (−30°C to +85°C; +25°C Ref.) | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | | ±0.8 PPM | |
| Analog Sensitivity[1]    12 dB SINAD Digital Sensitivity    5% BER | -121 dBm -121.5 dBm | -120 dBm -120 dBm | -121 dBm -121.5 dBm | | Pre-Amp -123 dBm -123 dBm | Standard -119 dBm -119 dBm | Pre-Amp -123 dBm -123 dBm | Standard -119 dBm -119 dBm | Pre-Amp -123 dBm -123 dBm | Standard -119 dBm -119 dBm |
| Intermodulation    25 kHz    12.5 kHz | 85 dB 85 dB | | 85 dB 85 dB | | 84 dB 85 dB | 86 dB 86 dB | 82 dB 83 dB | 86 dB 86 dB | 82 dB 83 dB | 86 dB 86 dB |
| Spurious Rejection | 100 dB | | 100 dB | | 90 dB | | 90 dB | | 90 dB | |
| Audio Response[1] | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | | +1, −3 dB (EIA) | |
| Audio Distortion at rated[1] | 1.20 % | | 1.20 % | | 1.20 % | | 1.20 % | | 1.20 % | |
| Selectivity[1]    25 kHz    12.5 kHz    30 kHz | 82.5 dB 72 dB — | | 82.5 dB 72 dB — | | 87 dB 76 dB 90 dB | | 82 dB 76 dB — | | 82 dB 76dB — | |

## POWER AND BATTERY DRAIN

| | |
|---|---|
| Model Type | 136-174 MHz, 380-470 MHz, 450-520 MHz, 764-870 MHz |
| Minimum RF Power Output | 1-35W (764-870 MHz), 1-50W (136-174MHz), 1-40W (380-470 MHz), 1-45W (450-485 MHz), 1-40W (485-512 MHz), 1-25 (512-520 MHz) |
| AC Operation | 110 to 220VAC 50-60Hz |
| AC Current | 110VAC: 0.85A (Idle/Rx)   1.7A (Tx)<br>220VAC:  0.42A (Idle/Rx)  0.85A (Tx) |
| AC Surge Spec | EN6100-4-5 Level 5 |
| DC Operation | 13.8V DC ±20% Negative Ground |
| Standby at 13.8V | 1.4A (764-870 MHz), 1.4A (136-174 MHz), 1.4A (380-470 MHz), 1.4A (450-520 MHz) |
| Receive Current at Rated Audio at 13.8V | 3.2A (764-870 MHz), 3.2A (136-174 MHz), 3.2A (380-470 MHz), 3.2A (450-520 MHz) |

| Transmit Current (A) at Rated Power | 136-174 MHz (1-50 W) | 15A (50W) | 8A (15W) | 764-870 MHz (1-35 Watt) | 13A (50W) | 8A (15W) |
|---|---|---|---|---|---|---|
| | 380-470 MHz (1-40 W) | 15A (40W) | 8A (15W) | | | |
| | 450-520 MHz (1-45 W) | 13A (45W) | 8A (15W) | | | |

## 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<br>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<br>FIPS 197 |

## WIRELESS CONNECTIVITY

| | |
|---|---|
| WLAN (Wi-Fi®) | 802.11 b/g/n supports WPA-2, WPA, WEP security protocols; radio can be pre-provisioned with up to 20 SSIDs |

## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| Operating Temperature | -30ºC / +60ºC |
| Storage Temperature | -40ºC / +85ºC |
| Humidity | 95% relative humidity |
| ESD | IEC 61000-4-2 |
| Duty Cycle | EIA/TIA Intermittent Duty Cycle |

## FCC/IC TYPE ACCEPTANCE ID

| FCC/IC ID | BAND AND POWER LEVEL |
|---|---|
| FCC ID: AZ492FT7089 | 764-776 MHz (10-30 W) |
| IC ID: 109U-92FT7089 | 794-806 MHz (10-30 W) |
| | 806-824 MHz (10-35 W) |
| | 851-870 MHz (10-35 W) |
| | 136-174 MHz (10-50 W and 25-110 W) |
| | 380-470 MHz (10-40 W and 25-110 W) |
| | 450-485 MHz (10-45 W) |
| | 485-512 MHz (10-40 W) |
| | 512-520 MHz (10-25 W) |

For more information, visit motorolasolutions.com/apx

**MOTOROLA** *SOLUTIONS*