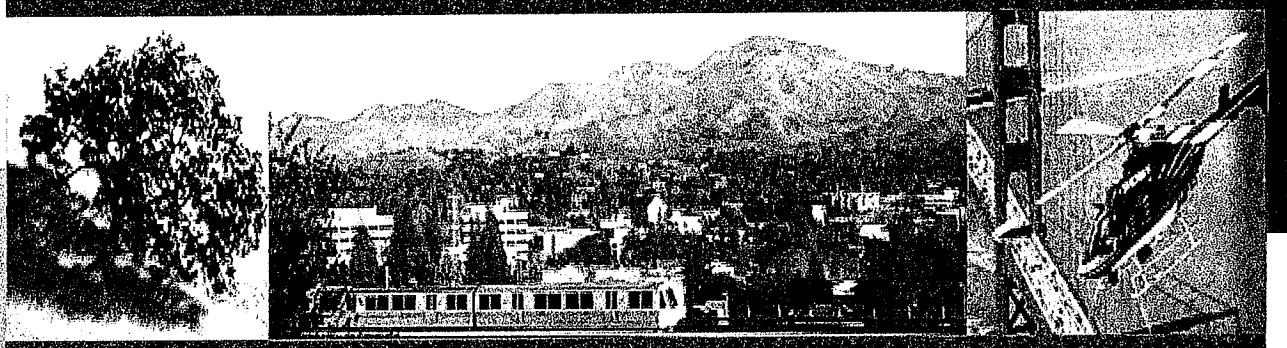

Contra Costa County

Contra Costa County

Solicitation # 0904-018

Project 25 Portable/Mobile Radios

tyco / Electronics M/A-COM

DAILEY-WELLS

Submitted by: Wendell Norwood
Phone: (650) 544-4411
E-Mail: wendell@dwcomm.com

May 29 2009

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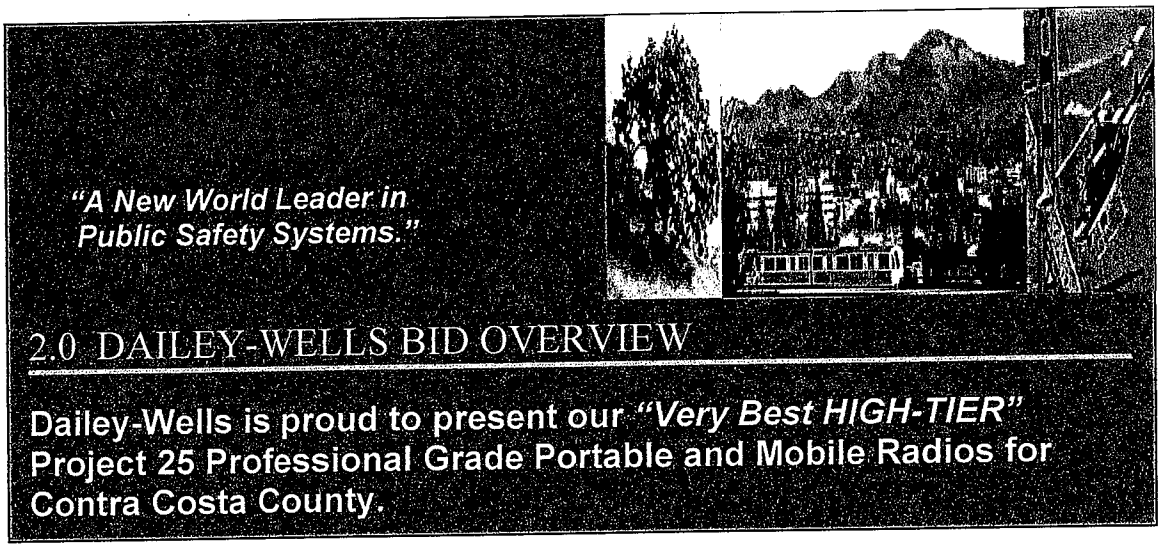

2.1 Bid Response Overview

Dailey-Wells has fully reviewed the requirements of Contra Costa County's Solicitation # 0904-018, P25 Radios, and are pleased to provide this Proposal for your review.

Dailey-Wells' bid is based upon a Discount Structure applied to the Manufacturer's published List Price for the respective offered P25 products. The Discount Structure includes additional discount incentives based upon the quantity of a specific order from the County. We have included in our Proposal:

1. Dailey-Wells' proposed Discount Structure
2. Manufacturer's current published List Price for Portables, Mobiles and accessories offered hereunder.
3. Dailey-Wells' Summary of Qualifications, including the required three (3) references.
4. Written summary of our planned efforts to meet the Recyclable Battery requirements contained in the Solicitation.
5. Written summary of our planned efforts to meet the Recyclable Packaging Content requirements contained in the Solicitation.
6. Product Brochures and Specification Sheets.

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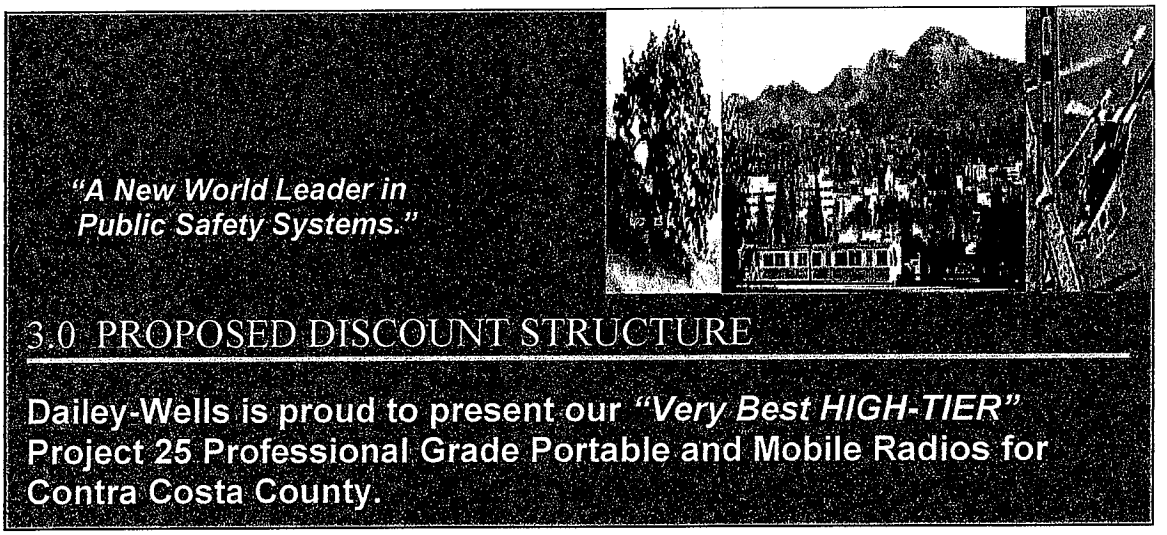

3.1 Proposed Discount Structure

Dailey-Wells proposes a Discount Structure from Manufacturer's published List Price plus additional discounts based on quantities ordered on any given order. The below tables (Table 1 and Table 2) define the discounts.

For products with an Equipment Code (E/C) other than "V" or "77"

	Quantity of Order			
Radio Type	1-99	100-499	500-999	> 999
P25 Portable	25%	26%	27%	30%
P25 Mobile	25%	26%	27%	30%

For products with an Equipment Code (E/C) of "V" or "77"

	Quantity of Order			
Radio Type	1-99	100-499	500-999	> 999
Portable Accessories	2%	3%	4%	5%
Mobile Accessories	2%	3%	4%	5%

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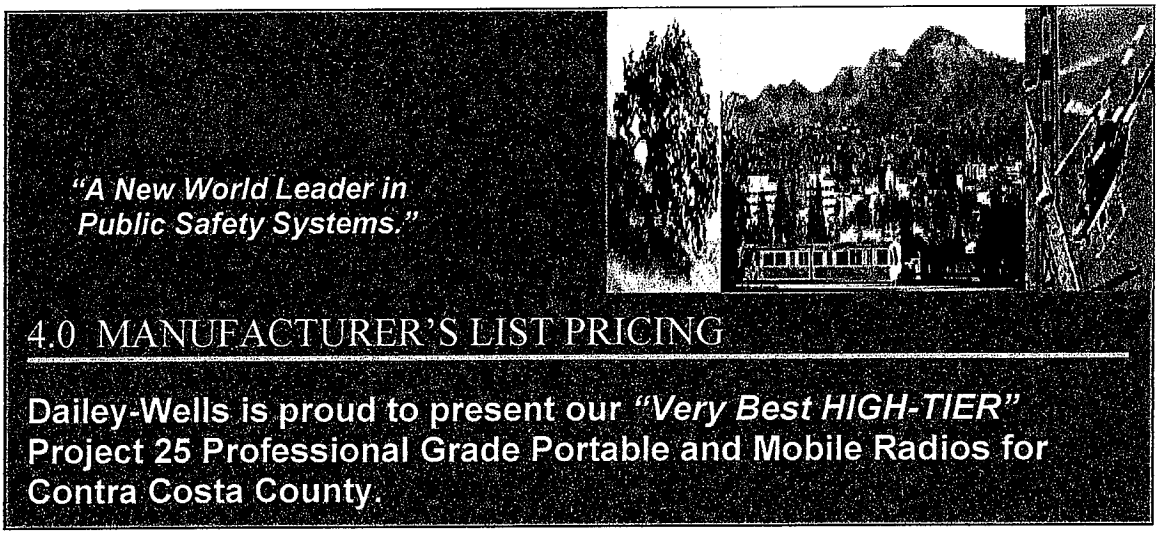

4.1 Manufacturer's Published List Pricing

The following pages provide the Manufacturer's Published List Pricing for the P25 Portables, Mobiles and associated accessories. Discounts offered in Section 3 of this proposal are to be applied to the prices shown.

In addition to the products and List Prices contained in this submittal, Dailey-Wells offer includes the entire contents of the M/A-COM Price Catalog relating to Portable Radios, Mobile Radios, Radio Accessories, Desktop Control Stations, Digital Remote Controllers and other fixed or mobile subscriber radio equipment. Dailey-Wells is desirous of expanding the offerings to the County beyond the Portable & Mobile radios requested and if so desired by the County. We look forward to discussing our other Project 25 products with the County.

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P5200 PORTABLES

Band: 700/800
Product Code: HM

P5250

The P5200 portables are multi-mode radios that can operate on OpenSky®, ProVoice™, EDACS®, P25 Trunking, P25[IP], and Conventional systems.

All P5200 orders must be placed through the Product Configurator. The following is for information only.

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description
1. Transceiver (Select one)			
N	MAHM-B7SXX	3,145.00	PORTABLE, P5250, OpenSky, 764-870 MHz
N	MAHM-B7PXX	3,145.00	PORTABLE, P5250, ProVoice, 764-870 MHz
N	MAHM-B7DXX	2,525.00	PORTABLE, P5250, EDACS, 764-870 MHz
N	MAHM-B7TXX	3,145.00	PORTABLE, P5250, P25 Trnk, 764-870 MHz
N	MAHM-B7VXX	2,415.00	PORTABLE, P5250, P25 Conv, 764-870 MHz
2. Antenna (Select one)			
N	MAHM-NC5X	40.00	ANTENNA, 764-870 MHZ, WHIP
N	MAHM-NC5K	30.00	ANTENNA, 806-870 MHZ, FLEXIBLE END FED GAIN
3. Operational Mode Packages* (Select one if additional Operational Modes are required.)			
N	MAHM-PKGPT	630.00	FEATURE SET, P25 TRUNKING
N	MAHM-PKGOS	630.00	FEARURE SET, OPENSKY TRUNKING
N	MAHM-PKGPV	650.00	FEATURE SET, PROVOICE TRUNKING

*All models include Emergency, Dynamic Regroup, P25 Common Air Interface (CAI), and analog conventional operation. ProVoice digital trunked models include EDACS, P25 CAI, and analog conventional operation.

For keyloader, see section 9.

EXPORT CONTROL NOTE: ALL Digital Voice encrypted products may require a validated Export License issued by the Department of Commerce. Certain non-encrypted commodities may require a validated Export License issued by the Department of Commerce depending on customer name and destination country. The following countries are currently under embargo by the USA: Cuba, North Korea, Libya, Iran, Iraq, Sudan, and Syria.

Latest Products and Pricing on the Web
http://www.macompartners.com

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P5200 PORTABLES

Band: 700/800
Product Code: HM

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description
4. Software Features			
OpenSky Software Options			
N	MAHM-NPL7X	215.00	FEATURE, OPENSKY DATA
ProVoice, EDACS, and P25 Software Options			
N	MAHM-PL1X	320.00	FEATURE, ProScan™ ROAMING WITH PRIORITY SYSTEM SCAN
N	MAHM-PL5K	320.00	FEATURE, ProFile™ OVER-THE-AIR PROGRAMMING
N	MAHM-PL3Y	110.00	FEATURE, STATUS MESSAGE
N	MAHM-PL1Y	110.00	FEATURE, PRIORITY SYSTEM SCAN
ProVoice and EDACS Software Options			
N	MAHM-PL3X	220.00	FEATURE, EDACS DATA
N	MAHM-NPL7Z	215.00	FEATURE, 512 EDACS SYSTEMS/GROUPS
N	MAHM-PL7G	110.00	FEATURE, EDACS SECURITY KEY
P25 Software Options			
N	MAHM-PL7P	215.00	FEATURE, P25 DATA
N	MAHM-PL7G	110.00	FEATURE, P25 PERSONALITY LOCK
5. Battery (Select one)			
N	MAHM-NPA2J	130.00	BATTERY, LI-ION, 3200 MAH
N	MAHM-PA9P	100.00	BATTERY, NIMH, EXTRA HIGH CAPACITY
N	MAHM-NPA2L	95.00	BATTERY, NIMH, 2400 MAH, WIND DRIVEN RAIN
N	MAHM-NPA9V	80.00	BATTERY, NIMH, 2000 MAH
N	MAHM-PA9N	80.00	BATTERY, NICD, HIGH CAPACITY
Battery Enclosure Option			
N	MAHM-NPA2H	50.00	BATTERY, CLAM SHELL, AA ALKALINE Enclosure for AA Alkaline batteries which are not included
6. Chargers			
Rapid Chargers			
N	MAHM-CH9E	130.00	CHARGER, SINGLE, TRI-CHEMISTRY For use with all P5200 batteries except MAHM-NPA2J
N	MAHM-CH9A	795.00	CHARGER, MULTI, TRI-CHEMISTRY For use with all P5200 batteries except MAHM-NPA2J
Vehicular Chargers			
C	H2VPDE	1,255.00	CHARGER, VEHICULAR, ENHANCED, DUAL POSITION Includes Vehicular Charger, Mounting Bracket and Cables, Mic with Hookswitch, Mic Hanger Kit, Speaker, and Installation and Operator's Manuals. For NiCd or NiMH batteries. For this feature, use the speaker mic designated "Vehicular Charger Compatible."
C	MAH2-VC3P7	150.00	CHARGER, VC3000 CHARGER, P7100/P5100
C	MAH2-NPS9X	35.00	POWER ADAPTER KIT, VC3000 CHARGER

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P5200 PORTABLES

Band: 700/800
Product Code: HM

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description

6. Chargers (Cont'd)

Enhanced Vehicular Charger Options (Applies only to H2VPDE)

N	H2MA5U	690.00	KIT, CONTROL UNIT, HAND HELD CONTROLLER
N	H2MA3P	900.00	KIT, CONTROL UNIT, SYSTEM, REMOTE CONTROL
N	H2MA3H	690.00	KIT, CONTROL UNIT, SCAN, REMOTE CONTROL
N	H2MK3F	70.00	KIT, KEYCAP, SYSTEM CONTROL UNIT (72 Keys and Extractor Tool)
N	H2MK3E	30.00	KIT, KEYCAP, SCAN CONTROL UNIT (11 Keys and Extractor Tool)

7. Audio Accessories

Speaker Microphones

N	MAHM-AE7B	135.00	MICROPHONE, LAPEL/ANTENNA PROVISION Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, Earphone Jack, and Antenna Port (Order antenna separately)
N	MAHM-AE7F	155.00	MICROPHONE, LAPEL, VEHICULAR CHARGER COMPATIBLE Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, and Earphone Jack
N	MAHM-AE7A	135.00	MICROPHONE, LAPEL Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, and Earphone Jack
N	MAHM-AE3Z	65.00	EARPHONE, LAPEL MICROPHONE For use with Speaker/Mics that have earphone jack
V	OT-V2-10122	170.00	MICROPHONE, LAPEL, INDUSTRIAL PLUS Includes Urethane Membrane over Speaker, Rubber PTT Button, and limited points of entry for blowing material found in most industrial environments
V	OT-V2-10121	175.00	MICROPHONE, LAPEL, INDUSTRIAL Includes Rubber PTT Button and limited points of entry for blowing material found in most industrial environments

Subminiature Remote Control Options

The following subminiature options are not approved for use in hazardous atmospheres.

V	OT-V1-10525	200.00	MICROPHONE, MINI-LAPEL, 3-WIRE, BLACK
V	OT-V1-10524	200.00	MICROPHONE, MINI-LAPEL, 3-WIRE, BEIGE
V	OT-V1-10523	200.00	MICROPHONE, PALM, 2-WIRE, BLACK
V	OT-V1-10522	200.00	MICROPHONE, PALM, 2-WIRE, BEIGE
V	OT-V1-10520	120.00	EARPHONE KIT, 1-WIRE, BLACK, Includes cable and connector
V	OT-V1-10521	120.00	EARPHONE KIT, 1-WIRE, BEIGE, Includes cable and connector

Headsets

V	OT-V4-10317	480.00	HEADSET, BEHIND THE HEAD
V	OT-V4-10316	450.00	HEADSET, OVER THE HEAD
V	OT-V4-10314	200.00	HEADSET, ULTRA LIGHT, WITH IN-LINE PTT, BLACK
V	OT-V4-10315	200.00	HEADSET, LIGHTWEIGHT, WITH 1 SPEAKER

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P5200 PORTABLES

Band: 700/800
Product Code: HM

E/C	Model No.	List Price $	Description
8. Carrying Accessories			
N	MAHM-HC7T	35.00	BELT LOOP, LEATHER, WITH SWIVEL
N	MAHM-HC7U	20.00	STRAP, NYLON, RADIO, "T"
N	MAHM-HC7P	20.00	BELT CLIP, METAL
Standard Cases			
N	MAHM-NHC9Y	100.00	CASE, STANDARD, LEATHER WITH SHOULDER STRAP KIT
N	MAHM-NHC9X	60.00	CASE, STANDARD, LEATHER WITH BELT LOOP & SWIVEL
N	MAHM-NHC9Z	45.00	CASE, STANDARD, BLACK NYLON WITH BELT LOOP & SWIVEL
N	MAHM-NHC9V	15.00	STRAP, STANDARD, RETAINING, USE WITH SHOULDER STRAP
Premium Cases			
N	MAHM-HC9K	180.00	CASE, LEATHER, WITH LEATHER SHOULDER STRAP
N	MAHM-HC7N	130.00	CASE, LEATHER, WITH BELT LOOP & SWIVEL
N	MAHM-HC7R	80.00	CASE, NYLON, WITH BELT LOOP/SWIVEL, BLACK
N	MAHM-HC7S	65.00	CASE, NYLON, WITH BELT LOOP/SWIVEL, ORANGE
9. Miscellaneous			
Battery Charger/Analyzer/Conditioner			
77	CADEX-7400	2,710.00	BATTERY CONDITIONER/ANALYZER, 4 BAYS, Requires sleeves below
77	CADEX-C7 Adapter	240.00	ADAPTER, SLEEVE FOR CADEX-7400 SYSTEM FOR NICD/NIMH BATTERIES
77	BC3506QP-5	1,425.00	BATTERY CONDITIONER/ANALYZER, IQ5 SYSTEM, 6 BAYS, Requires NiCd/NiMH sleeves below
77	BA1200	95.00	ADAPTER, SLEEVE FOR IQ5 SYSTEM, NICD BATTERIES
77	BA4547	95.00	ADAPTER, SLEEVE FOR IQ5 SYSTEM, NIMH BATTERIES

NOTE: Adapter sleeves for the P7200, P7100^{IP}, P5200, and P5100 are interchangeable because these portables use the same batteries. Both charger/conditioner/analyzer systems (Cadex-7400 and IQ5) also have adapters for other battery sizes. Adapters for different battery sizes can be mixed/matched on a system.

Cables			
N	MAHM-CJ5Z	140.00	CABLE, DATA INTERFACE
S	TQ3419	205.00	CABLE, PROGRAMMING, P7200, P7100^{IP}, P5200 AND P5100 TO PC RS-232 NOTE: The portables do not require the TQ3370 interface box with this cable.
Manuals			
V	MAMM-780PT	65.00	MANUAL, MAINTENANCE, P7200/P5200, 700/800 MHZ
Industry Canada			
N	MAHM-EC1A	5.00	OPTION, INDUSTRY CANADA

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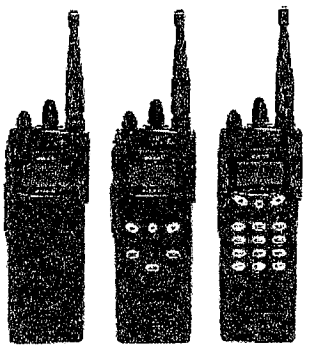
P7200 PORTABLES

Band: 700/800
Product Code: PT



P7230 P7250 P7270

The P7200 portables are multi-mode radios that can operate on OpenSky®, ProVoice™, EDACS®, P25 Trunking, P25IP, and Conventional systems.

All P7200 orders must be placed through the Product Configurator. The following is for information only.

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description

1. Transceiver (Select one)

Intrinsically Safe Mode

This mode upgrades the radio to Intrinsically Safe operation and supplies a battery. Models containing -IS1 in the model number or description include a high capacity NiCd battery and models containing -IS2 include an extra high capacity NiMH battery. For example, MAPT- T7HXX-IS2 is an Intrinsically Safe P7270 with an extra high capacity NiMH battery.

P7270

C	MAPT-T7HXX	2,520.00	PORTABLE, P7270, 764-870 MHz, System, Unencrypted
C	MAPT-T7HXX-IS1	future	PORTABLE, P7270, 764-870 MHz, IS
C	MAPT-T7HXX-IS2	future	PORTABLE, P7270, 764-870 MHz, IS
C	MAPT-T7HXE	3,020.00	PORTABLE, 64B-DES, P7270, 764-870 MHz, Sys
C	MAPT-T7HXE-IS1	future	PORTABLE, 64B-DES, P7270, 764-870 MHz, IS
C	MAPT-T7HXE-IS2	future	PORTABLE, 64B-DES, P7270, 764-870 MHz, IS
C	MAPT-T7HXA	3,370.00	PORTABLE, P7270, 256B-AES, 764-870 MHz
C	MAPT-T7HXA-IS1	future	PORTABLE, P7270, 256B-AES, 764-870 MHz, IS
C	MAPT-T7HXA-IS2	future	PORTABLE, P7270, 256B-AES, 764-870 MHz, IS

High Visibility Models

C	MAPT-Y7H1X	future	PORTABLE, YELLOW, HIGH VISIBILITY, IS1, Sys
C	MAPT-Y7H2X	future	PORTABLE, YELLOW, HIGH VISIBILITY, IS2, Sys

The Product Configurator includes the following option on all trunked or digital radios.

N	MAPT-PL3R	0.00	FEATURE, MAXIMUM (1,024+) SYSTEMS/GROUPS

For keyloader, see section 9.

EXPORT CONTROL NOTE: ALL Digital Voice encrypted products may require a validated Export License issued by the Department of Commerce. Certain non-encrypted commodities may require a validated Export License issued by the Department of Commerce depending on customer name and destination country. The following countries are currently under embargo by the USA: Cuba, North Korea, Libya, Iran, Iraq, Sudan, and Syria.

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P7200 PORTABLES

Band: 700/800
Product Code: PT

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description
P7250			
C	MAPT-S7HXX	2,320.00	PORTABLE, P7250, 764-870 MHz, Scan, Unencrypted
C	MAPT-S7HXX-IS1	future	PORTABLE, P7250, 764-870 MHz, IS
C	MAPT-S7HXX-IS2	future	PORTABLE, P7250, 764-870 MHz, IS
C	MAPT-S7HXE	2,820.00	PORTABLE, 64B-DES, P7250, 764-870 MHz, Scan
C	MAPT-S7HXE-IS1	future	PORTABLE, 64B-DES, P7250, 764-870 MHz, IS
C	MAPT-S7HXE-IS2	future	PORTABLE, 64B-DES, P7250, 764-870 MHz, IS
C	MAPT-S7HXA	3,170.00	PORTABLE, P7250, 256B-AES, 764-870 MHz
C	MAPT-S7HXA-IS1	future	PORTABLE, P7250, 256B-AES, 764-870 MHz, IS
C	MAPT-S7HXA-IS2	future	PORTABLE, P7250, 256B-AES, 764-870 MHz, IS
P7230			
C	MAPT-C7HXX	2,220.00	PORTABLE, P7230, 764-870 MHz, Select, Unencrypted
C	MAPT-C7HXX-IS1	future	PORTABLE, P7230, 764-870 MHz, IS
C	MAPT-C7HXX-IS2	future	PORTABLE, P7230, 764-870 MHz, IS
C	MAPT-C7HXE	2,720.00	PORTABLE, 64B-DES, P7230, 764-870 MHz, Select
C	MAPT-C7HXE-IS1	future	PORTABLE, 64B-DES, P7230, 764-870 MHz, IS
C	MAPT-C7HXE-IS2	future	PORTABLE, 64B-DES, P7230, 764-870 MHz, IS
C	MAPT-C7HXA	3,070.00	PORTABLE, P7230, 256B-AES, 764-870 MHz
C	MAPT-C7HXA-IS1	future	PORTABLE, P7230, 256B-AES, 764-870 MHz, IS
C	MAPT-C7HXA-IS2	future	PORTABLE, P7230, 256B-AES, 764-870 MHz, IS

The Product Configurator includes the following option on all trunked or digital radios.

N	MAPT-PL3R	0.00	FEATURE, MAXIMUM (1,024+) SYSTEMS/GROUPS

2. Antenna (Select one)

N	MAPT-NC5K	30.00	ANTENNA, 806-870 MHZ, 1/2 WAVE, FLEXIBLE END FED GAIN <IS>
N	MAPT-NC5X	40.00	ANTENNA, 764-870 MHZ, 1/4 WAVE, WHIP <IS>

For keyloader, see section 9.

EXPORT CONTROL NOTE: ALL Digital Voice encrypted products may require a validated Export License issued by the Department of Commerce. Certain non-encrypted commodities may require a validated Export License issued by the Department of Commerce depending on customer name and destination country. The following countries are currently under embargo by the USA: Cuba, North Korea, Libya, Iran, Iraq, Sudan, and Syria.

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P7200 PORTABLES

Band: 700/800
Product Code: PT

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description
3. Immersible Mode (This feature upgrades the radio to immersible operation.)			
N	MAPT-MR	240.00	IMMERSIBLE RADIO OPERATION (applies to any Operational Mode Feature Package)
4. Operational Mode Packages* (Must select one if operational modes in addition to analog conventional are required.)			
N	MAPT-CA	370.00	FEATURE PACKAGE, P25 CAI, CONVENTIONAL DIGITAL (includes Analog Conventional operation)
N	MAPT-ED	1,185.00	FEATURE PACKAGE, EDACS TRUNKING OPERATION (includes P25 Conventional and Analog Conventional operation)
N	MAPT-PV	1,940.00	FEATURE PACKAGE, PROVOICE DIGITAL TRUNKING OPERATION (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAPT-PT	1,885.00	FEATURE PACKAGE, P25 TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAPT-OS	2,040.00	FEATURE PACKAGE, OPENSKY TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAPT-PKGPP	2,515.00	FEATURE PACKAGE, P25 TRUNKING AND PROVOICE (includes P25 Conventional, EDACS, and Analog Conventional operation)
N	MAPT-PKGNS	2,670.00	FEATURE PACKAGE, OPENSKY AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAPT-PKGNT	2,670.00	FEATURE PACKAGE, OPENSKY AND P25 TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAPT-PKGFB	3,300.00	FEATURE PACKAGE, OPENSKY, P25 TRUNKING, AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)

***All Operational Mode Packages include Emergency, Dynamic Regroup, and 1,024 systems/groups.**

5. Software Features

Software Options (Emergency and Dynamic Regroup are included in the standard radio package.)

N	MAPT-PL7K	110.00	FEATURE, DIRECT FREQUENCY ENTRY This feature can only be configured for customers that are not FCC regulated such as Federal (NTIA) and international customers

OpenSky Software Options

N	MAPT-PL5L	315.00	FEATURE, OVER-THE-AIR REKEYING (OTAR)

ProVoice, EDACS, and P25 Software Options

N	MAPT-PL5K	265.00	FEATURE, ProFile™ OVER-THE-AIR PROGRAMMING
N	MAPT-PL1X	235.00	FEATURE, ProScan™ ROAMING WITH PRIORITY SYSTEM SCAN
N	MAPT-PL1Y	110.00	FEATURE, PRIORITY SYSTEM SCAN
N	MAPT-NPL7N	60.00	FEATURE, RADIO TEXTLINK
N	MAPT-NPL3Y	55.00	FEATURE, STATUS MESSAGE

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P7200 PORTABLES

Band: 700/800
Product Code: PT

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

<IS> INTRINSICALLY SAFE APPROVALS

An Accessory Description followed by the symbol <IS> indicates that the option is approved for use with Intrinsically Safe Radios through FM and CSA, <FM> denotes FM approval only and <CSA> denotes CSA approval only.

E/C	Model No.	List Price $	Description
5. Software Features (Cont'd))			
ProVoice and EDACS Software Options			
N	MAPT-PL3X	220.00	FEATURE, EDACS DATA
N	MAPT-PL7G	110.00	FEATURE, EDACS SECURITY KEY
P25 Software Options			
N	MAPT-PL5L	future	FEATURE, OVER-THE-AIR REKEYING (OTAR)
N	MAPT-PL7P	215.00	FEATURE, P25 DATA
N	MAPT-PL7G	110.00	FEATURE, P25 PERSONALITY LOCK
6. Battery (Select one)			
Immersible (Must be ordered with Immersible Radio (MAPT-MR))			
N	MAPT-NPA2J	130.00	BATTERY, LI-ION, 3200 MAH
N	MAPT-PA7W	125.00	BATTERY, NIMH, EXTRA HIGH CAPACITY
N	MAPT-PA7Y	135.00	BATTERY, NIMH, EXTRA HIGH CAPACITY, SPARE <IS>
N	MAPT-NPA9V	80.00	BATTERY, NIMH, 2000 MAH
N	MAPT-PA7V	105.00	BATTERY, NICD, HIGH CAPACITY
N	MAPT-PA7X	115.00	BATTERY, NICD, HIGH CAPACITY, SPARE <IS>
Driven Rain			
N	MAPT-PA9P	100.00	BATTERY, NIMH, EXTRA HIGH CAPACITY
N	MAPT-PA9N	80.00	BATTERY, NICD, HIGH CAPACITY
N	MAPT-NPA2L	95.00	BATTERY, NIMH, 2400 MAH
Battery Enclosure Option			
N	MAPT-NPA2H	50.00	BATTERY, CLAM SHELL, AA ALKALINE Enclosure for AA Alkaline batteries which are not included
7. Chargers			
Desk Chargers			
N	MAPT-CH9E	130.00	CHARGER, SINGLE, TRI-CHEMISTRY For use with all P7200 batteries except MAPT-NPA2J
N	MAPT-CH9A	795.00	CHARGER, MULTI, TRI-CHEMISTRY For use with all P7200 batteries except MAPT-NPA2J

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P7200 PORTABLES

Band: 700/800
Product Code: PT

<IS> INTRINSICALLY SAFE APPROVALS

An Accessory Description followed by the symbol <IS> indicates that the option is approved for use with Intrinsically Safe Radios through FM and CSA, <FM> denotes FM approval only and <CSA> denotes CSA approval only.

E/C	Model No.	List Price $	Description
7. Chargers (Cont'd)			
Vehicular Chargers			
C	H2VPDE	1,255.00	CHARGER, VEHICULAR, ENHANCED, DUAL POSITION Includes Vehicular Charger, Mounting Bracket and Cables, Mic with Hookswitch, Mic Hanger Kit, Speaker, and Installation and Operator's Manuals. For NiCd or NiMH batteries. For this feature, use the speaker mics designated "Vehicular Charger Compatible."
C	MAH2-VC3P7	150.00	CHARGER, VC3000 CHARGER
N	MAH2-NPS9X	35.00	POWER ADAPTER KIT, VC3000 CHARGER, 120/230 VAC
Enhanced Vehicular Charger Options (Applies only to H2VPDE)			
N	H2MA5U	690.00	KIT, CONTROL UNIT, HAND HELD CONTROLLER
N	H2MA3P	900.00	KIT, CONTROL UNIT, SYSTEM, REMOTE CONTROL
N	H2MA3H	690.00	KIT, CONTROL UNIT, SCAN, REMOTE CONTROL
N	H2MK3F	70.00	KIT, KEYCAP, SYSTEM CONTROL UNIT (72 Keys and Extractor Tool)
N	H2MK3E	30.00	KIT, KEYCAP, SCAN CONTROL UNIT (11 Keys and Extractor Tool)
8. Audio Accessories			
Speaker Microphones			
N	MAPT-NAE9L	300.00	SPEAKER MICROPHONE, RUGGEDIZED, COILED CORD, VEHICULAR CHARGER COMPATIBLE Includes Rubber PTT Button, Emergency Button, and Watertight Accessory Connector. Immersion Rated to 1 Meter. Pressure Wash Rated<IS>
N	MAPT-NAE9K	300.00	SPEAKER MICROPHONE, RUGGEDIZED, MINI COILED CORD, ANTENNA PROVISION Includes Mini-Coiled Cable, Rubber PTT Button, Emergency Button, Antenna Port (Order antenna separately), and Watertight Accessory Connector. Immersion Rated to 1 Meter. Pressure Wash Rated<IS>
N	MAPT-NAE9J	285.00	SPEAKER MICROPHONE, RUGGEDIZED, STRAIGHT CORD WITH ANTENNA PROVISION Includes Straight Cord, Rubber PTT Button, Emergency Button, Antenna Port (Order antenna separately), and Watertight Accessory Connector. Immersion Rated to 1 Meter. Pressure Wash Rated<IS>
N	MAPT-NAE9H	235.00	SPEAKER MICROPHONE, RUGGEDIZED, COILED CORD Includes Rubber PTT Button, Emergency Button, and Watertight Accessory Connector. Immersion Rated to 1 Meter. Pressure Wash Rated<IS>
V	OT-V2-10121	175.00	MICROPHONE, LAPEL, INDUSTRIAL Includes Rubber PTT Button and limited points of entry for blowing material found in most industrial environments
V	OT-V2-10122	170.00	MICROPHONE, LAPEL, INDUSTRIAL PLUS Includes Urethane Membrane over Speaker, Rubber PTT Button, and limited points of entry for blowing material found in most industrial environments

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P7200 PORTABLES

Band: 700/800
Product Code: PT

E/C	Model No.	List Price $	Description
8. Audio Accessories (Cont'd)			
Speaker Microphones (Cont'd)			
N	MAPT-AE7B	135.00	MICROPHONE, LAPEL WITH ANTENNA PROVISION Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, Earphone Jack, and Antenna Port (Order antenna separately) <IS>
N	MAPT-AE7A	135.00	MICROPHONE, LAPEL Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, and Earphone Jack <IS>
N	MAPT-AE3Z	65.00	EARPHONE, LAPEL MICROPHONE For use with Speaker/Mics that have an earphone jack <IS>
Subminiature Remote Control Options			
The following subminiature options are not approved for use in hazardous atmospheres.			
V	OT-V1-10525	200.00	MICROPHONE, MINI-LAPEL, 3-WIRE, BLACK
V	OT-V1-10524	200.00	MICROPHONE, MINI-LAPEL, 3-WIRE, BEIGE
V	OT-V1-10523	200.00	MICROPHONE, PALM, 2-WIRE, BLACK
V	OT-V1-10522	200.00	MICROPHONE, PALM, 2-WIRE, BEIGE
V	OT-V1-10520	120.00	EARPHONE KIT, 1-WIRE, BLACK, Includes cable and connector
V	OT-V1-10521	120.00	EARPHONE KIT, 1-WIRE, BEIGE, Includes cable and connector
Headsets			
V	OT-V4-10316	450.00	HEADSET, OVER THE HEAD
V	OT-V4-10317	480.00	HEADSET, BEHIND THE HEAD
V	OT-V4-10314	200.00	HEADSET, ULTRA LIGHT, WITH IN-LINE PTT, BLACK
V	OT-V4-10315	200.00	HEADSET, LIGHTWEIGHT, WITH 1 SPEAKER
9. Carrying Accessories			
N	MAPT-HC7T	35.00	BELT LOOP, LEATHER, WITH SWIVEL<IS>
N	MAPT-HC7U	20.00	STRAP, NYLON, RADIO, "T"<IS>
N	MAPT-HC7P	20.00	BELT CLIP, METAL<IS>
Standard Cases			
N	MAPT-NHC9Y	100.00	CASE, STANDARD, LEATHER WITH SHOULDER STRAP KIT
N	MAPT-NHC9X	60.00	CASE, STANDARD, LEATHER WITH BELT LOOP & SWIVEL
N	MAPT-NHC9Z	45.00	CASE, STANDARD, BLACK NYLON WITH BELT LOOP & SWIVEL
N	MAPT-NHC9V	15.00	STRAP, STANDARD, RETAINING, USE WITH SHOULDER STRAP
Premium Cases			
N	MAPT-HC7N	130.00	CASE, LEATHER, WITH BELT LOOP & SWIVEL<IS>
N	MAPT-HC7R	80.00	CASE, NYLON, WITH BELT LOOP/SWIVEL, BLACK<IS>

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P7200 PORTABLES

Band: 700/800
Product Code: PT

E/C	Model No.	List Price $	Description
10. Miscellaneous			
Battery Charger/Analyzer/Conditioner			
77	CADEX-7400	2,710.00	BATTERY CONDITIONER/ANALYZER, 4 BAYS, Requires sleeves below
77	CADEX-C7 Adapter	240.00	ADAPTER, SLEEVE FOR CADEX-7400 SYSTEM FOR NICD/NIMH BATTERIES
77	BC3506QP-5	1,425.00	BATTERY CONDITIONER/ANALYZER, IQ^{five} SYSTEM, 6 BAYS, Requires NiCd/NiMH sleeves below
77	BA1200	95.00	ADAPTER, SLEEVE FOR IQ^{five} SYSTEM, NICD BATTERIES
77	BA4547	95.00	ADAPTER, SLEEVE FOR IQ^{five} SYSTEM, NIMH BATTERIES

NOTE: Adapter sleeves for the P7200, P7100^{IP}, P5200, and P5100 are interchangeable because these portables use the same batteries. Both charger/conditioner/analyzer systems (Cadex-7400 and IQ^{five}) also have adapters for other battery sizes. Adapters for different battery sizes can be mixed/matched on a system.

Cables			
N	MAPT-CJ5Z	140.00	CABLE, DATA INTERFACE (Part No. RPM 1132472/33)
S	TQ3419	205.00	CABLE, PROGRAMMING, P7200, P7100^{IP}, P5200 AND P5100 TO PC RS-232 NOTE: The portables do not require the TQ3370 interface box with this cable.
Emergency Accessories			
N	MAPT-NEA1C	165.00	MAN DOWN UDC SWITCH
Manuals			
V	MAMM-780PT	65.00	MANUAL, MAINTENANCE, P7200/P5200, 700/800 MHZ
Industry Canada			
N	MAPT-EC1A	5.00	OPTION, INDUSTRY CANADA

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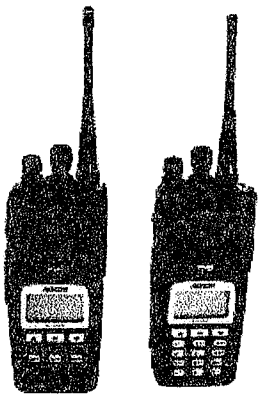
P5400 PORTABLES

Band: 800, UHF, VHF
Product Code: EX



P5450 P5470

The P5400 portables are multi-application radios that can operate on OpenSky®, ProVoice™, EDACS®, P25 Trunking, P25IP, and Conventional systems.

All P5400 orders must be placed through the Product Configurator. The following is for information only.

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

1. Transceiver (Select one)

E/C	Model No.	List Price $	Description
P5470 800 MHz			
N	MAEX-D81XX	1,660.00	PORTABLE, P5470, 800 MHz, Unencrypted
N	MAEX-D81XA	2,550.00	PORTABLE, 256B-AES, P5470, 800 MHz
P5450 800 MHz			
N	MAEX-C81XX	1,450.00	PORTABLE, P5450, 800 MHz, Unencrypted
N	MAEX-C81XA	2,340.00	PORTABLE, 256B-AES, P5450, 800 MHz

2. Antenna (Select one)

N	MAEX-NNC1K	25.00	ANTENNA, 806-870 MHZ, WHIP
N	MAEX-NNC5X	40.00	ANTENNA, 764-870 MHZ, WHIP
N	MAEX-NNC5K	30.00	ANTENNA, 806-870 MHZ, FLEXIBLE END FED GAIN

For keyloader, see section 9.

EXPORT CONTROL NOTE: ALL Digital Voice encrypted products may require a validated Export License issued by the Department of Commerce. Certain non-encrypted commodities may require a validated Export License issued by the Department of Commerce depending on customer name and destination country. The following countries are currently under embargo by the USA: Cuba, North Korea, Libya, Iran, Iraq, Sudan, and Syria.

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P5400 PORTABLES

Band: 800, UHF, VHF
Product Code: EX

Transceiver, Antenna, and Battery must be ordered for a complete operating radio package.

E/C	Model No.	List Price $	Description
3. Operational Mode Packages* (Must select at least one if operational modes in addition to analog conventional are required.)			
N	MAEX-PKGCA	515.00	FEATURE PACKAGE, P25 DIGITAL CONVENTIONAL
N	MAEX-PKGED	695.00	FEATURE PACKAGE, EDACS TRUNKING
N	MAEX-PKGOS	1,380.00	FEATURE PACKAGE, OpenSky TRUNKING (800 MHz ONLY)
N	MAEX-PKGPV	1,420.00	FEATURE PACKAGE, ProVoice TRUNKING
N	MAEX-PKGPT	1,380.00	FEATURE PACKAGE, P25 TRUNKING
N	MAEX-PKGPP	2,010.00	FEATURE PACKAGE, P25 TRUNKING & ProVoice

*All Operational Mode Packages include Emergency, Dynamic Regroup, and 512 systems/groups.

The Product Configurator includes the following option on all trunked or digital radios.

N	MAEX-NPL7Z	0.00	FEATURE, 512 SYSTEMS/GROUPS

Options for Unencrypted Radios

N	MAEX-NPL3V	525.00	FEATURE, 64-Bit DES ENCRYPTION (for Unencrypted Models only)

4. Software Features

Software Options

N	MAEX-NPL7K	110.0	FEATURE, DIRECT FREQUENCY ENTRY This feature can only be configured for customers that are not FCC regulated such as Federal (NTIA) and international customers

OpenSky Software Options

N	MAEX-NPL7X	215.00	FEATURE, OpenSky DATA

ProVoice, EDACS, and P25 Software Options

N	MAEX-NPL5K	265.00	FEATURE, ProFile™ OVER-THE-AIR PROGRAMMING
N	MAEX-NPL1X	235.00	FEATURE, ProScan™ ROAMING WITH PRIORITY SYSTEM SCAN
N	MAEX-NPL3R	215.00	FEATURE, MAXIMUM (1,024+) SYSTEMS/GROUPS
N	MAEX-NPL7N	60.00	FEATURE, RADIO TEXTLINK
N	MAEX-NPL3Y	55.00	FEATURE, STATUS MESSAGE

ProVoice and EDACS Software Options

N	MAEX-NPL3X	220.00	FEATURE, EDACS DATA
N	MAEX-NPL7G	110.00	FEATURE, EDACS SECURITY KEY (ESK)

P25 Software Options

N	MAEX-NPL7P	215.00	FEATURE, P25 DATA
N	MAEX-NPL5L	future	FEATURE, P25 OVER-THE-AIR-REKEYING (OTAR)
N	MAEX-NPL7G	110.00	FEATURE, P25 PERSONALITY LOCK

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P5400 PORTABLES

Band: 800, UHF, VHF
Product Code: EX

E/C	Model No.	List Price $	Description
5. Battery (Select one)			
N	MAEX-NPA9Y	100.00	BATTERY, LI-ION, 2000 MAH
N	MAEX-NPA9X	100.00	BATTERY, NIMH, 2400 MAH
N	MAEX-NPA2M	80.00	BATTERY, NIMH, 2400 MAH, WIND DRIVEN RAIN
N	MAEX-NPA9W	80.00	BATTERY, NICD, 1600 MAH
6. Chargers			
Rapid Chargers			
N	MAEX-NCH9T	120.00	CHARGER, SINGLE, TRI-CHEMISTRY
N	MAEX-NCH9U	695.00	CHARGER, MULTI, TRI-CHEMISTRY
7. Audio Accessories			
Speaker Microphones			
N	MAEX-NAE9E	175.00	MICROPHONE, LAPEL/ANTENNA PROVISION Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, Earphone Jack, and Antenna Port (Order antenna separately)
N	MAEX-NAE9D	135.00	MICROPHONE, LAPEL Includes Rubber PTT Button, Emergency Button, 2-Position Volume Control, and Earphone Jack
N	MAEX-NAE3Z	65.00	EARPHONE, LAPEL MICROPHONE For use with Speaker/Mics that have earphone jack
Carrying Accessories			
N	MAEX-NHC7T	35.00	BELT LOOP, LEATHER, WITH SWIVEL
N	MAEX-NHC7P	20.00	BELT CLIP, METAL
Standard Cases			
N	MAEX-NHC9S	100.00	CASE, STANDARD, LEATHER WITH SHOULDER STRAP KIT
N	MAEX-NHC9T	60.00	CASE, STANDARD, LEATHER WITH BELT LOOP & SWIVEL
N	MAEX-NHC9U	45.00	CASE, STANDARD, BLACK NYLON WITH BELT LOOP & SWIVEL
N	MAEX-NHC9V	15.00	STRAP, STANDARD, RETAINING, USE WITH SHOULDER STRAP
Premium Cases			
N	MAEX-NHC9L	130.00	CASE, LEATHER, WITH BELT LOOP & SWIVEL
N	MAEX-NHC9M	80.00	CASE, NYLON, WITH BELT LOOP/SWIVEL, BLACK
8. Miscellaneous			
Cables			
N	MAEX-NCJ2A	230.00	CABLE, DATA INTERFACE, P5300/P5400
S	CA-023407-001	190.00	CABLE, PROGRAMMING AND KEYLOADING, P5300/P5400
Manuals			
V	MAMM-100EX	65.00	MANUAL, MAINTENANCE, P5400 SERIES, VHF
V	MAMM-400EX	65.00	MANUAL, MAINTENANCE, P5400 SERIES, UHF
CE Option			
N	MAEX-NEC1H	5.00	CE PERFORMANCE AND COMPLIANCE OPTION Radios shipping to countries that follow CE regulatory requirements must be set up to operate in CE mode.
Industry Canada			
N	MAEX-NEC1A	5.00	OPTION, INDUSTRY CANADA

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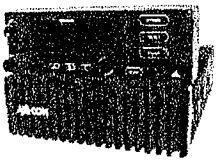
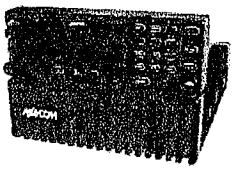
M7200 MOBILES

Band: 700/800
Product Code: MV



M7200 with CH-721 Scan



M7200 with CH-721 System

The M7200 mobiles are multi-mode radios that can operate on OpenSky®, ProVoice™, EDACS®, P25 Trunking, P25ID, and Conventional systems.

All M7200 orders must be placed through the Product Configurator. The following is for information only.

E/C	Model No.	List Price $	Description
1. Transceiver (Select one)			
C	MAMV-FDLXX	2,715.00	MOBILE, M7200, 700/800 MHz, Full Duplex w GPS, Unencrypted
C	MAMV-FDLXE	3,240.00	MOBILE, M7200, 700/800 MHz, Duplex, GPS, 64B-Encryption
C	MAMV-FDLXA	3,605.00	MOBILE, M7200, 700/800 MHz, Duplex, GPS, 256B-Encryption
The Product Configurator includes the following option on all trunked or digital radios.			
N	MAMV-PL3R	0.00	FEATURE, MAXIMUM (1,024+) SYSTEMS/GROUPS
2. Antennas			
V	AN-025167-005	230.00	ANTENNA, GPS/700/800 MHZ, 3 DB, ELEVATED FEED, ROOF MOUNT
V	AN-025167-015	205.00	ANTENNA, GPS/700/800 MHZ, 5 DB GAIN, ROOF MOUNT
V	AN-025167-004	200.00	ANTENNA, GPS/700/800 MHZ, 3 DB GAIN, ROOF MOUNT
N	MAMV-AN3L	160.00	ANTENNA, GPS
V	AN-025167-002	85.00	ANTENNA, 700/800 MHZ, 3 DB, ELEVATED FEED, ROOF MOUNT
V	AN-025167-014	60.00	ANTENNA, 700/800 MHZ, 5 DB GAIN, ROOF MOUNT
S	MAMV-AN3J	40.00	ANTENNA, 700/800 MHZ, 3 DB GAIN, ROOF MOUNT

For keyloader, see section 9.

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M7200 MOBILES

Band: 700/800
Product Code: MV

E/C	Model No.	List Price $	Description
3. Operational Mode Packages* (Must select one if operational modes in addition to analog conventional are required.)			
N	MAMV-CA	895.00	FEATURE PACKAGE, PROJECT 25 COMMON AIR INTERFACE (CAI) CONVENTIONAL DIGITAL, UNENCRYPTED (applies to any Operational Mode Feature Package) (Includes Analog Conventional operation)
N	MAMV-ED	1,185.00	FEATURE PACKAGE, EDACS TRUNKING OPERATION (includes P25 Conventional and Analog Conventional operation)
N	MAMV-PV	1,940.00	FEATURE PACKAGE, PROVOICE DIGITAL TRUNKING OPERATION (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAMV-PT	1,830.00	FEATURE PACKAGE, P25 TRUNKING (Includes P25 Conventional and Analog Conventional operation)
N	MAMV-OS	2,040.00	FEATURE PACKAGE, OPENSKY VOICE AND DATA TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAMV-PKGOD	525.00	FEATURE PACKAGE, OPENSKY DATA SERVICES
N	MAMV-PKGPP	2,515.00	FEATURE PACKAGE, P25 TRUNKING AND PROVOICE (includes P25 Conventional, EDACS, and Conventional operation)
N	MAMV-PKGNS	2,670.00	FEATURE PACKAGE, OPENSKY AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAMV-PKGNT	2,670.00	FEATURE PACKAGE, OPENSKY AND P25 TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAMV-PKGFB	3,300.00	FEATURE PACKAGE, OPENSKY, P25 TRUNKING, AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)

***All Operational Mode Packages include Emergency, Dynamic Regroup, and 1,024 systems/groups.**

4. Software Features

ProVoice and EDACS Software Options

N	MAMV-PL5K	265.00	FEATURE, ProFile™ OVER-THE-AIR PROGRAMMING
N	MAMV-PL1X	235.00	FEATURE, ProScan™ ROAMING WITH PRIORITY SYSTEM SCAN
N	MAMV-PL3X	215.00	FEATURE, EDACS DATA
N	MAMV-PL1Y	110.00	FEATURE, PRIORITY SYSTEM SCAN
N	MAMV-PL7G	110.00	FEATURE, EDACS SECURITY KEY
N	MAMV-NPL7N	60.00	FEATURE, RADIO TEXTLINK
N	MAMV-NPL3Y	55.00	FEATURE, STATUS MESSAGE

P25 Software Options

N	MAMV-PL5L	future	FEATURE, P25 OVER-THE-AIR REKEYING (OTAR)
N	MAMV-PL7P	215.00	FEATURE, P25 DATA
N	MAHG-PL7G	110.00	FEATURE, P25 PERSONALITY LOCK

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M7200 MOBILES

Band: 700/800
Product Code: MV

E/C	Model No.	List Price $	Description
5. Control Unit (Select one)			
N	MAMV-CP9E	720.00	CONTROL UNIT, CH-721 SCAN, REMOTE MOUNT
N	MAMV-CP9F	825.00	CONTROL UNIT, CH-721, SYSTEM, REMOTE MOUNT
Dual Control Units (Order Microphone Separately)			
Order complete transceiver, first control unit, and accessories. Then order dual control options to provide a second control head, accessory cable, speaker, mounting bracket and hardware.			
N	MAMV-NZN7C	1,115.00	CONTROL UNIT, DUAL CONTROL, CH-721 SCAN
N	MAMV-NZN7D	1,220.00	CONTROL UNIT, DUAL CONTROL, CH-721 SYSTEM
6. Microphone (Select one)			
N	MAMV-NMC9F	360.00	MICROPHONE, DTMF, RIGHT ANGLE
N	MAMV-NMC9C	205.00	MICROPHONE, DTMF, CH-721 CONTROL UNIT
N	MAMV-NMC9D	160.00	MICROPHONE, NOISE CANCELING, CH-721 CONTROL UNIT
N	MAMV-NMC7Y	130.00	MICROPHONE, DESKTOP, CH-721 CONTROL UNIT
N	MAMV-MC7Z	80.00	MICROPHONE, STANDARD (CH-721)
Dual Control Unit Microphone (Select one)			
N	MAMV-NMC9D	160.00	MICROPHONE, NOISE CANCELING, CH-721 CONTROL UNIT
N	MAMV-MC7Z	80.00	MICROPHONE, STANDARD (CH-721)
7. Mounting/Cabling Kit			
N	MAMV-ZN7P	105.00	ACCESSORIES, M7200 REMOTE MOUNT, Data Only Radio
N	MAMV-NZN7W	360.00	ACCESSORIES, M7200 REMOTE MOUNT KIT

NOTE: Mounting/Cabling Kit includes Power Cable, External Speaker, Mounting Bracket(s), Mic Hanger, and Radio Control Cable.

8. Miscellaneous			
Cables			
N	MAMV-NCL7K	65.00	CABLE, FULL I/O OPTION
N	MAMV-NCL8T	55.00	CABLE, SERIAL DATA, 20 FT
N	MAMV-NCL8R	40.00	CABLE, M7200, SERIAL PROGRAMMING
N	MAMV-NCL8C	45.00	CABLE, CH-721 OPTION CABLE
N	MAMV-NCL7R	55.00	CABLE, SERIAL PROGRAMMING, CH-721
Manuals			
V	MAMM-780MV	65.00	MANUAL, MAINTENANCE, M7200 MOBILE, 700/800 MHZ
Industry Canada			
N	MAMV-NEC1A	5.00	OPTION, INDUSTRY CANADA

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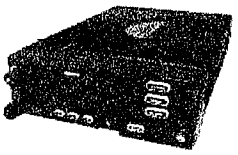
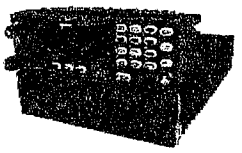
M7300 MOBILES

Band: 700/800
Product Code: MW



M7300 with CH-721 Scan



M7300 with CH-721 System

The M7300 mobiles are multi-mode radios that can operate on OpenSky®, EDACS®, ProVoice™, and Conventional systems.

All M7300 orders must be placed through the Product Configurator. The following is for information only.

E/C	Model No.	List Price $	Description
1. Transceiver (Select one)			
C	MAMW-SDMXX	1,865.00	MOBILE, M7300, 764-870 MHz, Half Duplex, Unencrypted
C	MAMW-SDMXE	2,390.00	MOBILE, M7300, DES, 764-870 MHz, Half Duplex
C	MAMW-SDMXA	2,755.00	MOBILE, M7300, AES, 764-870 MHz, Half Duplex
The Product Configurator includes the following option on all trunked or digital radios.			
N	MAMW-NPL3R	0.00	FEATURE, MAXIMUM (1,024+) SYSTEMS/GROUPS
2. Antennas			
V	AN-025167-005	230.00	ANTENNA, GPS/700/800 MHZ, 3 DB, ELEVATED FEED, ROOF MOUNT
V	AN-025167-015	205.00	ANTENNA, GPS/700/800 MHZ, 5 DB GAIN, ROOF MOUNT
V	AN-025167-004	200.00	ANTENNA, GPS/700/800 MHZ, 3 DB GAIN, ROOF MOUNT
V	AN-025167-011	195.00	ANTENNA, GPS/700/800 MHZ, 2 DB, LOW PROFILE, ROOF MOUNT
N	MAMW-NAN5F	155.00	ANTENNA, GPS, ROOF MOUNT
N	MAMW-NAN3L	160.00	ANTENNA, GPS, MAGNETIC MOUNT
N	MAMW-NAN3J	40.00	ANTENNA, 700/800 MHZ, 3 DB GAIN, ROOF MOUNT
V	AN-025167-002	85.00	ANTENNA, 700/800 MHZ, 3 DB, ELEVATED FEED, ROOF MOUNT
V	AN-025167-006	105.00	ANTENNA, 700/800 MHZ, 3 DB GAIN, MAGNETIC MOUNT
V	AN-025167-014	60.00	ANTENNA, 700/800 MHZ, 5 DB GAIN, ROOF MOUNT
V	AN-025167-010	50.00	ANTENNA, 700/800 MHZ, 2 DB, LOW PROFILE, ROOF MOUNT
3. GPS Option			
N	MAMW-NMK5F	525.00	GLOBAL POSITIONING SYSTEM (GPS)

For keyloader, see section 9.

EXPORT CONTROL NOTE: ALL Digital Voice encrypted products may require a validated Export License issued by the Department of Commerce. Certain non-encrypted commodities may require a validated Export License issued by the Department of Commerce depending on customer name and destination country. The following countries are currently under embargo by the USA: Cuba, North Korea, Libya, Iran, Iraq, Sudan, and Syria.

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M7300 MOBILES

Band: 700/800
Product Code: MW

E/C	Model No.	List Price $	Description
4. Operational Mode Packages* (Select one or more)			
N	MAMW-PKGCA	370.00	FEATURE PACKAGE, P25, COMMON AIR INTERFACE (CAI) CONVENTIONAL DIGITAL, UNENCRYPTED (applies to any Operational Mode Feature Package) (Includes Analog Conventional operation)
N	MAMW-PKGED	1,185.00	FEATURE PACKAGE, EDACS TRUNKING OPERATION (includes P25 Conventional and Analog Conventional operation)
N	MAMW-PKGPV	1,940.00	FEATURE PACKAGE, PROVOICE DIGITAL TRUNKING OPERATION (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAMW-PKGPT	1,830.00	FEATURE PACKAGE, P25 TRUNKING (Includes P25 Conventional and Analog Conventional operation)
N	MAMW-PKGOS	2,040.00	FEATURE PACKAGE, OPENSKY VOICE AND DATA TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAMW-PKGOD	525.00	FEATURE PACKAGE, OPENSKY DATA SERVICES
N	MAMW-PKGPP	2,515.00	FEATURE PACKAGE, P25 TRUNKING AND PROVOICE (includes P25 Conventional, EDACS, and Conventional operation)
N	MAMW-PKGNS	2,670.00	FEATURE PACKAGE, OPENSKY AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)
N	MAMW-PKGNT	2,670.00	FEATURE PACKAGE, OPENSKY AND P25 TRUNKING (includes P25 Conventional and Analog Conventional operation)
N	MAMW-PKGFB	3,300.00	FEATURE PACKAGE, OPENSKY, P25 TRUNKING, AND PROVOICE TRUNKING (includes EDACS, P25 Conventional, and Analog Conventional operation)
***All Operational Mode Packages include Emergency, Dynamic Regroup, and 1,024 systems/groups.**			
Option for AES Encrypted Radios			
N	MAMW-PKGFP	315.00	FEATURE, FIPS-140-2, OPERATION SL 1
5. Software Features			
Software Options			
N	MAMW-NPL7K	105.00	FEATURE, DIRECT FREQUENCY ENTRY
ProVoice, EDACS, and P25 Software Options			
N	MAMW-NPL5K	265.00	FEATURE, ProFile™ OVER-THE-AIR PERSONALITY PROGRAMMING
N	MAMW-NPL1X	235.00	FEATURE, ProScan™ ROAMING WITH PRIORITY SYSTEM SCAN
N	MAMW-NPL1Y	110.00	FEATURE, PRIORITY SYSTEM SCAN
N	MAMW-NPL7N	60.00	FEATURE, RADIO TEXTLINK
N	MAMW-NPL3Y	55.00	FEATURE, STATUS MESSAGE
ProVoice and EDACS Software Options			
N	MAMW-NPL3X	215.00	FEATURE, EDACS DATA
N	MAMW-NPL7G	110.00	FEATURE, EDACS SECURITY KEY
P25 Software Options			
N	MAMW-NPL5L	future	FEATURE, P25 OVER-THE-AIR REKEYING (OTAR)
N	MAMW-NPL7P	215.00	FEATURE, P25 DATA

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http://www.macompartners.com

Tyco Electronics

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M7300 MOBILES

Band: 700/800
Product Code: MW

E/C	Model No.	List Price $	Description
6. Control Unit (Select one)			
N	MAMW-NCP9G	685.00	CONTROL UNIT, CH-721, SCAN, FRONT MOUNT
N	MAMW-NCP9H	790.00	CONTROL UNIT, CH-721, SYSTEM, FRONT MOUNT
N	MAMW-NCP9E	720.00	CONTROL UNIT, CH-721, SCAN, REMOTE MOUNT
N	MAMW-NCP9F	825.00	CONTROL UNIT, CH-721, SYSTEM, REMOTE MOUNT
Dual Control Units (Order Microphone Separately)			
Order complete transceiver, first control unit, and accessories. Then order dual control options to provide a second control head, accessory cable, speaker, mounting bracket and hardware.			
N	MAMW-NZN7C	1,115.00	CONTROL UNIT, DUAL CONTROL, CH-721, SCAN
N	MAMW-NZN7D	1,220.00	CONTROL UNIT, DUAL CONTROL, CH-721, SYSTEM
7. Microphone (Select one)			
N	MAMW-NMC9C	205.00	MICROPHONE, DTMF, CH-721 CONTROL UNIT
N	MAMW-NMC9D	160.00	MICROPHONE, NOISE CANCELLING, CH-721 CONTROL UNIT
N	MAMW-NMC7Y	130.00	MICROPHONE, DESKTOP, CH-721 CONTROL UNIT
N	MAMW-NMC7Z	80.00	MICROPHONE, STANDARD, CH-721 CONTROL UNIT
Dual Control Unit Microphone (Select one)			
N	MAMW-NMC9D	160.00	MICROPHONE, NOISE CANCELLING, CH-721 CONTROL UNIT
N	MAMW-NMC7Z	80.00	MICROPHONE, STANDARD, CH-721 CONTROL UNIT
8. Mounting/Cabling Kit			
N	MAMW-NZN7R	360.00	ACCESSORIES, M7300 REMOTE MOUNT
N	MAMW-NZN6W	235.00	ACCESSORIES, M7300 FRONT MOUNT
NOTE:	Mounting/Cabling Kit includes Power Cable, External Speaker, Mounting Bracket(s), Mic Hanger, and Radio Control Cable.		
9. Miscellaneous			
Motorcycle Kit			
N	MAMW-NZN7X	1,765.00	ACCESSORIES, M7300 MOTORCYCLE, WITH CABLE OPTION
N	MAMW-NZN7Y	1,665.00	ACCESSORIES, M7300 MOTORCYCLE, NO CABLE OPTION
Programming and Option Cables			
N	MAMW-NCL8B	65.00	CABLE, OPTION, M7300/M5300
N	MAMW-NCL8T	55.00	CABLE, SERIAL DATA, 20 FT
N	MAMW-NCL8C	45.00	CABLE, CH-721 OPTION CABLE
N	MAMW-NCL7R	55.00	CABLE, SERIAL PROGRAMMING, CH-721
N	MATQ-NCL8U	180.00	CABLE, PROGRAMMING, CH-721 FRONT CONNECTOR
Manuals			
V	MAMM-780MW	65.00	MANUAL, MAINTENANCE, M7300 (700/800 MHZ)/ M5300 (800 MHZ)
Industry Canada			
N	MAMW-NEC1A	5.00	OPTION, INDUSTRY CANADA

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5.0 DAILEY-WELLS' QUALIFICATIONS

Dailey-Wells is proud to present our *"Very Best HIGH-TIER"* Project 25 Professional Grade Portable and Mobile Radios for Contra Costa County.

5.1 Dailey-Wells' Qualifications

Dailey-Wells has been awarded the "#1 TOP NATIONAL NSP" Award for excellence in customer service and satisfaction for the past 7 years.

Dailey-Wells has been chosen to be the first to beta-test and implement many manufacturer's products, and all personnel assigned to the project have at least ten (10) years of experience with this technology platform.

In addition, Dailey-Wells is a premier factory authorized source for Eltek DC plants, Zetron products and DB Spectra (Andrew) antenna systems.

Factory Staging Qualifications

Dailey-Wells has factory staged over 112 major systems over the past 12 years that were deployed around the U.S. Most recently, Dailey-Wells staged the new $1.1 Million LAFD 18-Channel Back-up System located at Mt. Lukens.

System Staging services have not been included with this Proposal.

Dailey-Wells' Professional References

1. City of Los Angeles, CA
   Information Technology Agency
   Contact: Nilesh Patel, Sr. Systems Engineer
   Phone: (213) 847-2371
   E-Mail: nilesh.patel@lacity.org

2. County of Los Angeles, CA
   Radio Systems Division
   Contact: Karl Kreb, Sr. Telecommunications Engineer
   Phone: (323) 881-3691
   E-Mail: kkreb@isd.lacounty.gov

3. City of Oakland, CA
   Dept. of Information Technology
   Contact: Orval Badger
   Phone: (510) 238-7637
   E-Mail: obadger@oaklandnet.com

P25 radios deployed in Oakland have been certified on both M/A-COM and Motorola P25 System infrastructures.

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tyco
Electronics

M/A-COM

M/A-COM, Inc.
Tempe, Arizona

Telephone: (480) 839-2500
www.macom.com

March 28, 2007

Juleine Latteri
EMS
1340 Arnold Drive, Suite 126
Martinez CA 94553

Subject: Dailey & Wells Communications, Inc.

Dear Ms. Latteri:

The purpose of this letter is to certify that Dailey & Wells Communications has been assigned the Contra Costa and Alameda County accounts as the M/A-COM Network Solutions Provider for these counties and their associated agencies and they continue to be the only M/A-COM Provider of EDACS trunked radio systems, terminal equipment and Systems Installation Services authorized to sell to these counties. Given the complexity of the Contra Costa County EDACS system, M/A-COM has assigned this account to Dailey & Wells due to their superior qualifications as a Network Solutions Provider and their ability to provide support in your geographical area.

In order for a company to become a Network Solutions Provider (NSP), M/A-COM requires a company to have demonstrated specific competencies through work experience and intensive training programs. These requirements include quantity of personnel on staff by function, competency of personnel on staff, as well as business targets. The NSP candidate must become "certified" to represent M/A-COM, which requires years of experience and a thorough on-site audit to verify specific competencies. NSP's may promote and sell more complex systems, based on their level of certification. Dailey & Wells has surpassed all these requirements and is certified at the highest possible level of a Network Solutions Provider.

M/A-COM maintains a high confidence level in the sales, engineering and service capabilities demonstrated by Dailey & Wells at some of M/A-COM's largest and most visible customers, to include the City & County of Honolulu, County of Los Angeles, City of Los Angeles, City of San Antonio, City of Oakland, City of Richmond, BART, Washoe County and others. These characteristics of Dailey & Wells will, in our opinion, exceed Contra Costa County's expectations in these areas.

Please do not hesitate to call me at (480) 839-2500 or on my cell phone at (480) 229-1703 should you have any questions or need any further information.

Sincerely,

Steve Howard
West Area Sales Director
M/A-COM, Inc.

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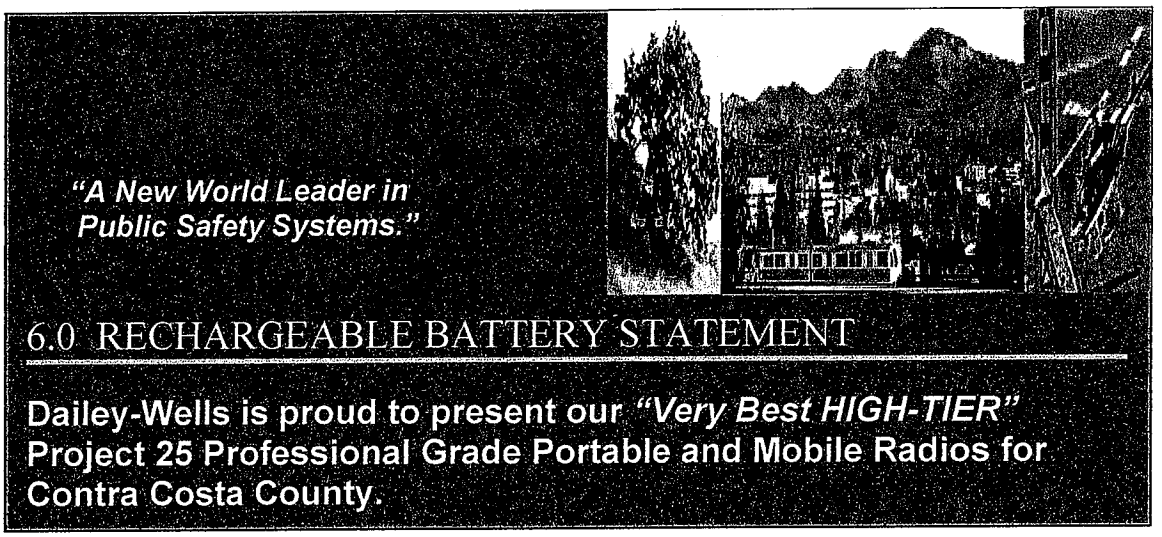

6.1 Rechargeable Battery Statement

Dailey-Wells will engage efforts to meet requirements to comply with, and help the County to comply with, applicable laws regarding Rechargeable Batteries and the recycling thereof.

Although Dailey-Wells is not a licensee of RBRC, our organization is dedicated to promoting green initiatives, conserving natural resources, and preserving our environment by preventing rechargeable batteries from entering our nation's solid waste stream.

Our partners and suppliers include the world's largest manufacturers of rechargeable batteries, and companies that use rechargeable batteries in the products they make. M/A-COM, the manufacturer of radios offered in our proposal, and their battery suppliers are licensees of RBRC. As such, each radio product we supply includes documentation with a notice that directs how the consumer can return or recycle used rechargeable batteries at no cost. In addition, information is publicized by these organizations about the used rechargeable battery recycling opportunities that are provided.

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Each radio Operator's Manual and each Rechargeable Battery package supplied by Dailey-Wells contains the following marking:

BATTERY CHARGING AND CARE

WARNING

Do not dispose of the battery pack in fire - it may explode, causing injury or death.

Do not replace the battery in hazardous atmosphere locations.

Do not carry battery loose in your pocket or purse.

Do not attempt to repair battery.

The product you have purchased contains a rechargeable, recyclable battery. At the end of its useful life under various state and local laws it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details concerning recycling options or proper disposal in your area. Call Toll Free 1-800-8- BATTERY for information and/or procedures for returning rechargeable batteries in your state.

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7.1 Packing Material Recyclable Content

Dailey-Wells firmly believes that recycling is not only the responsible thing to do; it can save money on disposal costs.

Dailey-Wells' use of recyclable corrugated cardboard is a planned exercise of our Company for the following reasons:

- ✓ **Save Money:** Since corrugated cardboard (CC) is bulky and takes up a lot of space in dumpsters--especially if un-flattened--businesses that generate large volumes of CC find it cost effective to bale or compact the material. At the very least, businesses may eliminate disposal fees by preparing it for hauler pickups or delivering it (drop-off) to a recycling facility.
- ✓ **Provide Social Benefits:** Donations of reusable corrugated boxes can be made to charities for reuse, or to school recycle/reuse centers for creative and educational purposes. Also, recycling CC reduces the need for new paper from virgin pulp, which in turn decreases the amount of pollution generated in paper production and creates jobs.
- ✓ **Divert Material from Disposal:** CC is a bulky, highly recyclable waste. Keeping this material out of the waste stream will mean saving landfill space in areas where disposed materials are land-filled and reducing pollution through avoided incineration where waste is incinerated.

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Dailey-Wells uses either single-wall or corrugated recyclables in all shipments. Each container contains a "Box Certificate" identifying that the box meets all recyclable construction requirements of applicable freight classifications. In addition, each box includes data associated with Edge Crush Tests (ECT) in pounds/inch, size limitation in inches and gross maximum weight in pounds.

Corrugated Recycles

In summary, Dailey-Wells takes its recycling programs very seriously in the conduct of our business.

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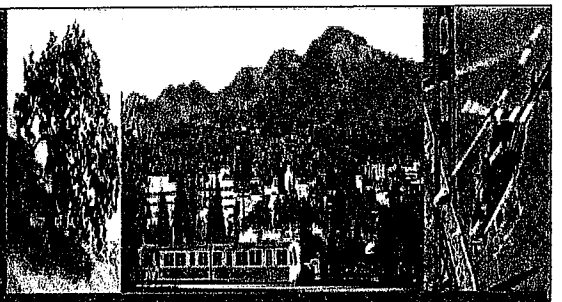

8. SPECIFICATIONS & PRELIMINARY DRAWINGS

Dailey-Wells is proud to present our *"Very Best HIGH-TIER"* Project 25 Professional Grade Portable and Mobile Radios for Contra Costa County.

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P5200 Portable

700/800 MHz

The P5200 portable is a digital two-way radio that provides

- *Dual-band operation*
- *Multi-Mode functionality*
- *Durable mechanical package*

P5250

The 700/800 MHz dual-band P5200 portable radio delivers digital voice and Internet Protocol (IP) data. It is a high-specification, feature-rich portable built to provide superior performance.

Multiple Operating Modes
The P5200 portable supports multiple operating modes, including OpenSky® digital trunked mode, Enhanced Digital Access Communications System (EDACS®) or ProVoice™ trunked mode, P25 digital trunked mode, and P25 conventional mode. As software-defined radios, the P5200 units can include all of these modes, several of these modes, or just one. Additional modes can be added later with software updates.

Advanced Digital Trunking Features
The P5200 supports the full range of OpenSky digital trunking features, including voice group calls, priority scanning, pre-emptive emergency calls, late call entry, and dynamic reconfiguration. It performs autonomous roaming for wide area applications. High-quality voice coding and robust audio components assure speech clarity, even in noisy environments.

Mobile Data Capability
With the optional mobile data feature, the P5200 portable can be used in high-performance wireless data systems. For mobile data applications, the P5200 serves as an IP network node, providing end-to-end IP connectivity for an external portable computer connected to the radio's data port. The 19.2-kbps data airlink rate is a standard operating feature. Users can talk and send or receive data on the same channel at the same time with just one radio.

Over-the-Air Programming
OpenSky radios benefit from a flexible, software-based design. Features and user profiles are software-defined and can be re-programmed over the air. The radio personality, features, and operating software can all be updated over the air.

Durable Package for Demanding Environments
The P5200 has a durable mechanical package that provides excellent performance in demanding environments.

- MIL-STD-810F rugged – including 1-meter drop per TIA (even the knobs)
- Non-Slip grips on the side
- Knobs with large blades for excellent tactile feel, yet rounded and with set-screws to prevent accidental changes
- Tx/Rx LED and improved clarity display for more visible signaling (including features such as a battery-level gauge)
- Large speaker and amplified microphone for loud and clear audio
- Intrinsically safe certification (pending)
- P7200 accessory compatibility – including batteries, chargers, carrying accessories, and audio accessories.

Project 25
The P5200 portable is Project 25 compliant and provides P25 trunking and P25 digital conventional operation. The portable facilitates digital interoperability with other Project 25 users during critical communications situations.

For More Information
For more information about this or any other M/A-COM product from Tyco Electronics Wireless Network Solutions, call toll free in the U.S. or Canada 800-368-3277. From outside the U.S. call +1-434-455-9223 (Asia Pacific), +1-434-455-9229 (Latin America, Middle East, and Africa), and +1-434-455-9219 (Europe).

Tyco Electronics
Our commitment. Your advantage.

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Tyco Electronics
DAILEY-WELLS

Contra Costa County

Solicitation # 0904-018

Official Sponsor

Technical specifications are subject to change without notice. This product is subject to U.S. export control for national security reasons.

General Specifications

Dimensions (H x W x D):
(Without Knobs and Antenna)
With battery:
6.75 x 2.58 x 1.79 in.
(171.4 x 65.5 x 44.7 mm)

Weight (with Battery):
NiCd: 21.3 oz (604g)
NiMH: 22.3 oz (633g)

Input Voltage:
7.5 VDC (nominal)

Vibration:
5 G (per U.S. Forest Service)

Shock:
1 meter drop (per TIA/EIA-603-A)

Battery Life (at 5% Tx, 5% Rx, and 90% standby):
NiCd: 8 hours (1600 mAH)
NiMH: 11 hours (2400 mAH)

Operating Temperature Range:
NiCd: 22 to +140°F
(-30 to +60°C)
NiMH: +14 to +122°F
(-10 to +50°C)

Relative Humidity:
90% @ 122°F (+50°C)

Altitude:
Operational: 15,000 ft (4,572 m)
In Transit: 50,000 ft
(15,240 m)

Color (case):
Black

Options and Accessories

Headset, earpiece, speaker microphones, PC programming software and cables, subminiature surveillance accessories, antennas, cases, straps, belt loops and swivel mounts, desk chargers, wall chargers, and vehicular chargers.

Intrinsically Safe Options

To be provided upon receipt of Factory Mutual and CSA certifications.

Transmitter

	700/800
Frequency Range (MHz):	764-776, 794-825, 851-870
Rated RF Power Trunked (W):	3 (0.5-3 under software control)
Rated RF Power Talkaround (W):	3 (0.5-3 under software control)
Frequency Stability (-30 to +60°C) (ppm):	±1.5
Modulation Deviation (kHz):	2.5, 4, or 5 FM 3.75 OpenSky Trunking
FM Hum and Noise (Companion Receiver) (dB):	>40 (non-NPSPAC), >36 (NPSPAC), >34 (12.5 kHz 700 MHz)
Audio Response (dB):	+1/-3
Spurious and Harmonics (dBm/dBc):	Meets FCC Part 90; emission mask "G" and "H" for 800 MHz
Frequency Separation (MHz):	Full bandwidth
Audio Distortion:	<2% at rated audio @ 1000 Hz, 3 kHz deviation
P25 Modulation Fidelity (%):	<5
P25 Adjacent Channel Power (dBc):	>87

Receiver

	700/800
Frequency Range (MHz):	764-776, 851-870
Channel Spacing (kHz):	12.5, 25, PLL Step
Sensitivity (12 dB SINAD) (µV/dBm):	0.25/-119
P25 Reference Sensitivity (5% block error rate) (µV/dBm):	0.25/-119
Digital Sensitivity (5% block error rate, OpenSky protocol, AWGN) (dBm):	-110
Adjacent Channel Rejection @ 25 kHz (dB):	>75
P25 Adjacent Channel Rejection @ 12.5 kHz (dB):	>60
Offset Channel Selectivity @ NPSPAC (dB):	>26
Intermodulation (dB):	>70
Spurious and Image Rejection (dB):	>70
FM Hum and Noise (dB):	>37 (non-NPSPAC), >35 (NPSPAC), >31 (12.5 kHz 700 MHz)
Frequency Stability (-30 to +60°C) (ppm):	±1.5
Frequency Separation (MHz):	Full bandwidth
Rated Audio Output (mW):	500
Audio Distortion:	<3% @ rated power
Measurements per TIA/EIA-603-Except where noted as "P25" per TIA/EIA-102.	

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1,2
	High Temperature	501.4/1,2
	Low Temperature	502.4/1,2
	Temperature Shock	503.4/1
	Solar Radiation	505.4/2
	Blowing Rain	506.4/1
	Humidity	507.4
	Salt Fog	509.4
	Blowing Dust	510.4/1
	Vibration (Minimum Integrity)	514.5/1, Category 24
	Vibration (Basic Transportation)	514.5/1, Category 4
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4
IEC 60529	Dust-tight and Water Jets	IP-55
U.S. Forest Service	Vibration (10-60 Hz)	USDA LMR Standard, Section 2.15
TIA/EIA-603-A	Shock	Paragraph 3.3.5.3
*Also meets equivalent superseded MIL-STD-810C, -D, and -E.		

Digital Operation

	OpenSky	ProVoice	P25
Vocoding Method:	Advanced MultiBand Excitation (AMBE®)	Improved MultiBand Excitation (IMBE™)	Improved MultiBand Excitation (IMBE™)
Data Rate (kbps):	19.2	9.6	9.6
Modulation:	4-Level GFSK	GFSK	C4FM

Regulatory Data

Frequency Range MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
764-806	3	1.5, 0.4*	BVSP7200	15.90	NA	NA
806-869	3	1.5	BVSP7200	15.90	3670A-P7200	RSS-119

*Only in OTP and P25 trunking modes.

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ProVoice is a trademark of M/A-COM, Inc.
All other trademarks are the property of their respective manufacturers.
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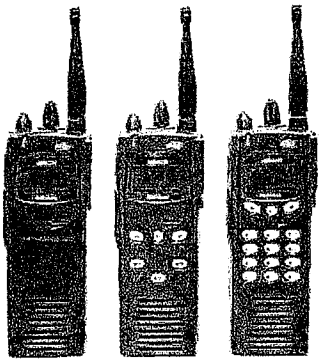
OpenSky,
EDACS®
ProVoice™
P25IP Trunked
Conventional

P7200 Portables 700/800 MHz

The P7200 portable is a dual-band radio that can host multiple applications, including the sophisticated capabilities of M/A-COM's OpenSky trunking. Other modes include Enhanced Digital Access Communications System (EDACS) or ProVoice trunked modes, Project 25 (P25) digital trunked mode, P25 digital conventional mode, and conventional analog mode. With a full range of audio accessories, the highest RF specifications, and a rugged housing, the P7200 portable family provides reliable communications with a range of features designed to excel in the challenging public safety environment.



P7230 P7250 P7270

Product Overview

The dual-band (700/800 MHz) P7200 portable radio delivers end-to-end encrypted digital voice and IP data communication. The P7200 was designed to meet the critical communication demands of public safety users. It is a high specification, feature-rich portable built to provide superior performance.

Multiple Operating Modes

The P7200 portable supports multiple operating modes, including OpenSky digital trunked mode, EDACS or ProVoice trunked mode, P25 digital trunked mode, P25 conventional mode, and conventional analog mode. As software-defined radios, the P7200 units can include all of these modes or just one. Additional modes can be added later with software updates.

Advanced Digital Trunking Features

The P7200 supports the full range of OpenSky digital trunking features, including voice group calls, priority scanning, pre-emptive emergency calls, late call entry, and dynamic reconfiguration. It performs autonomous roaming for wide area applications. High-quality voice coding and robust audio components assure speech clarity, even in noisy environments.

Mobile Data Capability

The P7200 portable can be used in high-performance wireless data systems. For mobile data applications, the P7200 serves as an Internet Protocol (IP) network node, providing end-to-end IP connectivity for an external portable computer connected to the radio's data port. The 19.2-kbps data airlink rate is a standard operating feature. Users can talk and send or receive data on the same channel at the same time with just one radio.

Over-the-Air Programming

OpenSky radios benefit from a flexible, software-based design. Features and user profiles are software-defined and can be reprogrammed over the air. The radio personality, features, and operating software can all be updated over the air. Over-the-Air Rekeying (OTAR) of encryption keys is also available.

Encrypted Communications

The optional Advanced Encryption Standard (AES) is available for maximum security. OpenSky operates the most advanced vocoder on a private wireless format that provides maximum digital voice clarity. As an additional measure of security, P7270 radios may be password-protected, preventing unauthorized use.

Lightweight with Heavy-Duty Performance

The P7200 is more than just new electronics and software, it is the most robust mechanical package ever offered in a M/A-COM portable radio.

- MIL-STD-810F rugged – including 1-meter drop per TIA (even the knobs)
- Optional Immersion – 1 meter for 4 hours per MIL-STD-810F
- Non-Slip grips on the side
- Knobs with large blades for excellent tactile feel, yet rounded and with set-screws to prevent accidental changes
- Tx/Rx LED and improved clarity display for more visible signaling (including new features such as a battery-level gauge)
- Large speaker and amplified microphone for loud and clear audio
- At 21 ounces with battery, the same weight as an LPE-200™ or M-RK™
- Intrinsically safe certification (optional)
- P7100IP accessory compatibility – including batteries, chargers, vehicular chargers, carrying accessories, and audio accessories.

Project 25

The P7200 portable is Project 25 compliant and provides P25 trunking and P25 digital conventional operation. The portable facilitates digital interoperability with other Project 25 users during critical communications situations.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

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Technical specifications are subject to change without notice. This product is subject to U.S. export control for national security reasons.

General Specifications

P7200 Portables are available in 3 models:
P7270: System Model with LCD and full keypad
P7250: Scan Model with LCD and limited keypad
P7230: Select Model with LCD and no front keypad

Dimensions (H x W x D):
(Without Knobs and Antenna)
With battery:
6.75 x 2.58 x 1.79 in.
(171.4 x 65.5 x 44.7 mm)

Weight (with Battery):
NiCd: 21.3 oz (604g)
NiMH: 22.3 oz (633g)

Input Voltage:
7.5 VDC (nominal)

Vibration:
5 G (per U.S. Forest Service)

Shock:
1 meter drop (per TIA/EIA-603-A)

Immersion*:
1 meter for 4 hours with 49°F (27°C) differential (MIL-STD-810F)
*P7200 immersion model only.

Battery Life (at 5% Tx, 5% Rx, and 90% standby):
NiCd: 8 hours (1600 mAH)
NiMH: 11 hours (2400 mAH)

Operating Temperature Range:
NiCd: -22 to +140°F
(-30 to +60°C)
NiMH: +14 to +122°F
(-10 to +50°C)

Relative Humidity:
90% @ 122°F (+50°C)

Altitude:
Operational: 15,000 ft (4,572 m)
In Transit: 50,000 ft (15,240 m)

Color (case):
Black

Options and Accessories

Headset, earpiece, speaker microphones, PC programming software and cables, subminiature surveillance accessories, antennas, cases, straps, belt loops and swivel mounts, desk chargers, wall chargers, and vehicular chargers.

Intrinsically Safe Options

Application submitted for Factory Mutual Intrinsically Safe.

Transmitter

	700/800
Frequency Range (MHz):	764-776, 794-825, 851-870
Rated RF Power Trunked (W):	3 (0.5-3 under software control)
Rated RF Power Talkaround (W):	3 (0.5-3 under software control)
Frequency Stability (-30 to +50°C) (ppm):	±1.5
Modulation Deviation (kHz):	2.5, 4, or 5 FM 3.75 OpenSky Trunking
FM Hum and Noise (Companion Receiver) (dB):	>40 (non-NPSPAC), >38 (NPSPAC)
Audio Response (dB):	+1/-3
Spurious and Harmonics (dBm/dBc):	Meets FCC Part 90: emission mask "G" and "F" for 800 MHz
Frequency Separation (MHz):	Full bandwidth
Audio Distortion:	<2% at rated audio @ 1000 Hz, 3 kHz deviation
P25 Modulation Fidelity (%):	<5
P25 Adjacent Channel Power (dBc):	>67

Receiver

	700/800
Frequency Range (MHz):	764-776, 851-870
Channel Spacing (kHz):	12.5, 25, PLL Step
Sensitivity (12 dB SINAD) (uV/dBm):	0.25/-119
P25 Reference Sensitivity (5% block error rate) (uV/dBm):	0.25/-119
Digital Sensitivity (5% block error rate, OpenSky protocol, AWGN) (dBm):	-110
Adjacent Channel Rejection @ 25 kHz (dB):	>72
P25 Adjacent Channel Rejection @ 12.5 kHz (dB):	>60
Offset Channel Selectivity @ NPSPAC (dB):	>20
Intermodulation (dB):	>70
Spurious and Image Rejection (dB):	>70
FM Hum and Noise (dB):	>37 (non-NPSPAC), >35 (NPSPAC)
Frequency Stability (-30 to +50°C) (ppm):	±1.5
Frequency Separation (MHz):	Full bandwidth
Rated Audio Output (mW):	500
Audio Distortion:	<2% @ rated power
Measurements per TIA/EIA-603-A except where noted as "P25" per TIA/EIA-102.	

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1,2
	High Temperature	501.4/1,2
	Low Temperature	502.4/1,2
	Temperature Shock	503.4/1
	Solar Radiation	505.4/2
	Blowing Rain	506.4/1
	Humidity	507.4
	Salt Fog	509.4
	Blowing Dust	510.4/1
	Immersion**	511.4/1
	Vibration (Minimum Integrity)	514.5/1, Category 24
	Vibration (Basic Transportation)	514.5/1, Category 4
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4
IP-67	Dust-tight and Water Immersion	IEC 60529
U.S. Forest Service	Vibration (10-60 Hz)	USDA EMR Standard, Section 2.15
TIA/EIA-603-A	Shock	Paragraph 3.3.5.3

*Also meets equivalent superseded MIL-STD-810C, -D, and -E.
**P7200 immersion model only. Available option that must be ordered.

Digital Operation

	OpenSky	ProVoice	P25
Vocoding Method:	Advanced MultiBand Excitation (AMBE™)	Improved MultiBand Excitation (IMBE™)	Improved MultiBand Excitation (IMBE™)
Data Rate (kbps):	19.2	9.6	9.6
Modulation:	4-Level GFSK	GFSK	C4FM

Regulatory Data

Frequency Range MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
764-805	3	1.5, 0.5*	BVSP7200	15, 90	NA	NA
806-869	3	1.5	BVSP7200	15, 90	3570A-P7200	RSS-119

*Only in OTP and P25 trunking modes.

M/A-COM Wireless Systems
P. O. Box 2000
Lynchburg, Virginia 24501
Phone: 1-800-368-3277
www.macom-wireless.com or www.opensky.com

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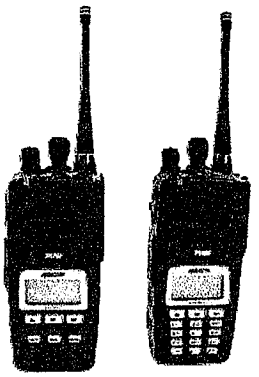
P5400 Portables

800 MHz



P5450 P5470

The P5400 portable is a digital two-way radio that provides

- *Multi-Mode functionality*
- *Digital voice and IP data*
- *Versatile configuration for many customer environments*

The P5400 portable enhances the productivity and increases the efficiency of its users.

Multiple Applications with One Radio
The P5400 uses a new high-speed digital signal processor and the latest RF components to support multiple applications in one package:

- OpenSky® Digital TDMA Trunking
- Project 25 Digital Trunking
- P25 Digital Conventional
- ProVoice™ Digital Trunking
- Enhanced Digital Access Communication System (EDACS®) Trunking
- Complete Analog Conventional features

Maximum RF Performance
The radio operates in the 800 MHz band and combines digital and analog operation in one radio. Such versatility maximizes interoperability. The portable complies with TIA-603 to provide the highest RF performance.

Advanced OpenSky Trunking Features
The P5400 supports the full range of OpenSky digital trunking features, including voice group calls, priority scanning, pre-emptive emergency calls, late call entry, and dynamic reconfiguration. It performs autonomous roaming for wide area applications. High-quality voice coding and robust audio components assure speech clarity even in noisy environments.

OpenSky Data Capability
The optional data feature allows the P5400 portable to be used in high-performance wireless data systems. For mobile data applications, the P5400 serves as an IP network node, providing end-to-end IP connectivity for an external portable computer connected to the radio's data port. The 19.2-kbps data airlink rate is a standard operating feature. Users can talk and send or receive data on the same channel at the same time with just one radio.

Encrypted Communications
The optional Advanced Encryption Standard (AES) is available for maximum security. OpenSky operates the most advanced vocoder on a private wireless intranet that provides maximum digital voice clarity. As an additional measure of security, P5470 radios may be password-protected, preventing unauthorized use.

High Performance in a Durable Package
The sturdy mechanical package of the P5400 provides high performance and reliable service.

- MIL-STD-810F durable – including 1-meter drop per TIA
- Programmable dual-position switch for flexible operation
- Tx/Rx LED and enhanced clarity LCD for more visible signaling (including features such as a battery-level gauge)
- At 13.6 ounces with Lithium-Ion battery, the lightest weight portable offered by M/A-COM
- Illuminated channel indicator for easy channel identification
- Intrinsically safe certification (pending)

Software-Based Design for Customization
With the software-based design, the P5400 portable is readily configurable and easily expandable with software upgrades to meet customized needs.

- Stores up to 1,024 trunked system/group combinations and up to 512 conventional channels
- Stores 99 individual call numbers and 99 telephone numbers in memory
- ProFile™ offers easy over-the-air programming for efficient updates
- ProScan™ provides smooth, automatic roaming between sites
- Personality Lock prevents unauthorized users from programming radios or accessing the system.

Radio TextLink Text Messages
With this option, users may receive, display, and respond to text messages sent from authorized users on the network. This feature improves real-time communications among first responders while also providing the capability to leave messages with users that are actively engaged in other critical activities.

For More Information
For more information about this or any other M/A-COM product from Tyco Electronics Wireless Network Solutions, call toll free in the U.S. or Canada 800-368-3277. From outside the U.S. call +1-434-455-6403.

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General Specifications

P5400 Portables are available in 2 models:

P5470: System Model with LCD and DTMF keypad

P5450: Scan Model with LCD and limited keypad

Dimensions (H x W x D):
(Without Knobs and Antenna)
With battery:
5.37 x 2.44 x 1.67 in.
(136.5 x 62.0 x 42.5 mm)

Weight (with Battery):
Li-Ion: 13.6 oz (386g)
NiCd: 17.3 oz (490g)
NiMH: 18.3 oz (519g)

Input Voltage:
7.5 VDC (nominal)

Vibration:
5 G (per U.S. Forest Service)

Shock:
1 meter drop (per TIA-603B)

Battery Life (at 5% Tx, 5% Rx, and 90% standby):
NiCd: 8 hours (1600 mAH)
Li-Ion: 9 hours (2000 mAH)
NiMH: 11 hours (2400 mAH)

Operating Temperature Range:
NiCd: -22 to +140°F (-30 to +60°C)
Li-Ion: +14 to +122°F (-10 to +50°C)
NiMH: -4 to +122°F (-20 to +50°C)

Relative Humidity:
90% @ 122°F (+50°C)

Altitude:
Operational: 15,000 ft (4,572 m)
In Transit: 50,000 ft (15,240 m)

Color (case):
Black

Options and Accessories

Headset, earpiece, speaker microphones, PC programming software and cables, subminiature surveillance accessories, antennas, cases, straps, belt loops and swivel mounts, desk chargers, wall chargers, and vehicular chargers.

Intrinsically Safe Options

To be provided upon receipt of Factory Mutual and CSA certifications.

Transmitter

	800
Frequency Range (MHz):	806-825, 851-870
Rated RF Power Trunked (W):	0.5-3.0
Rated RF Power Talkaround (W):	0.5-3.0
Frequency Stability (-30 to +60°C; +25°C Ref) (ppm):	±1.5
Frequency Separation (MHz):	Full bandwidth
Modulation Deviation (kHz):	±5.0 (±4.0 NPSPAC)
FM Hum and Noise (Companion Receiver) (dB):	<-40 (non-NPSPAC), <-38 (NPSPAC)
Spurious and Harmonics (dBm/dBc):	<-13/-48
Audio Response (dB):	+1/-3
Audio Distortion:	<3% (1 kHz tone @ 3 kHz deviation (non-NPSPAC)) <3% (1 kHz tone @ 2.4 kHz deviation (NPSPAC))

Receiver

	800
Frequency Range (MHz):	851-870*
Frequency Separation (MHz):	Full bandwidth
Channel Spacing (kHz):	25/NPSPAC
Frequency Stability (-30 to +60°C; +25 Ref) (ppm):	±1.5
Sensitivity (12 dB SINAD) (µV/dBm):	0.28/-118.0
Adjacent Channel Rejection @ 25 kHz (dB):	>70
Intermodulation (dB):	>72
Spurious and Image Rejection (dB):	>72
Rated Audio Output (mW):	500
Audio Distortion:	<3% @ rated power
Offset Channel Selectivity @ NPSPAC (dB):	>20

*The following self-quieting frequency cannot be programmed as a receive frequency: 854.000 MHz.

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F*	Low Pressure	500.4/1.2
	High Temperature	501.4/1.2
	Low Temperature	502.4/1.2
	Temperature Shock	503.4/1
	Solar Radiation	505.4/2
	Blowing Rain	506.4/1
	Humidity	507.4
	Salt Fog	509.4
	Blowing Dust	510.4/1
	Vibration (Minimum Integrity)	514.5/1, Category 24
	Vibration (Basic Transportation)	514.5/1, Category 4
	Shock (Functional/Basic)	516.5/1
	Shock (Transit Drop)	516.5/4
IEC 60529	Dust-tight, Water Jets	IP-65
U.S. Forest Service	Vibration (10-60 Hz)	USDA LMR Standard, Section 2.15
TIA-603B	Shock (1 meter drop)	Paragraph 3.3.5.3

*Also meets equivalent superseded MIL-STD-810C, -D, and -E.

Digital Operation

Vocoding Method:	Advanced Multi Band Excitation (AMBE™)
Data Rate (kbps):	19.2
Modulation:	4-Level GFSK

Regulatory Data

Frequency Range (MHz)	RF Output (W)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
806-869	3.0	CWDTP-0043-E	Part 90	36366-0043	RSS-119

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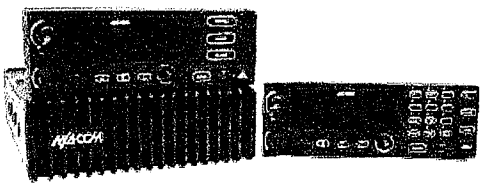
OpenSky.
EDACS®
ProVoice™
P25 IP Trunked
Conventional

M7200 Mobile 700/800 MHz

The M7200 mobile radio trunks seamlessly between the OpenSky 800 MHz frequency band and the newly available 700 MHz frequency band. The M7200 mobile employs the latest digital radio architecture with state-of-the-art digital signal processing techniques that can be easily programmed over the air for increased efficiency of operation. Added security and safety are provided through an integrated Global Positioning System (GPS) and data encryption. The M7200 mobile radio is designed to excel in the most challenging environment.



Product Overview

The M7200 mobile is a state-of-the-art radio that trunks seamlessly between the 800 MHz frequency band and the newly available 700 MHz frequency band. The M7200 is designed to meet the critical communications demands of public service users and complies with MIL-STD-810F specifications.

Multiple Operating Modes

The M7200 mobile supports multiple operating modes, including OpenSky digital operation, EDACS or ProVoice trunked modes, P25 digital trunked mode, P25 digital conventional mode, and conventional analog mode.

Mutual Aid Operation

The M7200 provides Project 25 conventional capabilities for interoperability with other users in the 700/800 MHz bands.

Over-the-Air Programming

OpenSky radios benefit from a flexible, software-based digital radio design. Features and user profiles are software-defined and can be reprogrammed over the air. The optional over-the-air programming feature allows communications protocols to be changed easily and added at any time.

CAN Peripheral Interface

The M7200 provides a Controller Area Network (CAN) interface that supports up to five control heads to allow flexible trunk mounting of the mobile. Alternatively, the CAN interface supports other peripherals such as mobile data terminals through the CH-103 Control Head.

Integrated GPS

The M7200 has an integrated Global Positioning System (GPS) receiver. This option allows the M7200 to fully support the Automatic Vehicular Locator (AVL) for fleet management and dispatch applications.

Full-Duplex Data Transfers

The M7200 provides optional full-duplex capability for increased data throughput performance. Full-duplex operation is recommended for customers using TCP/IP or UDP/IP.

Secure Communications

The optional password protection and Advanced Encryption Standard (AES) are available for maximum security. OpenSky operates the most advanced vocoder on a private wireless Intranet that provides maximum voice channel capacity.

About OpenSky

OpenSky is a secure integrated digital voice and data communication system. OpenSky leverages the power of Internet Protocol (IP) and packet technology for reliability and scalability to bring open data applications to the user. OpenSky uses a 19.2-kbps physical bit rate 4-slot Time Division Multiple Access (TDMA) airlink to achieve 6.25-kHz voice channel spectral efficiency and dynamic bandwidth allocation.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

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Technical specifications are subject to change without notice. This product is subject to U.S. export control for national security reasons.

General Specifications

Dimensions (H x W x D):
2.4 x 7 x 9 in.
(60 x 178 x 229 mm)

System Voltage:
10.8 to 16.6 VDC Negative Ground

Operating Temperature Range:
-22 to +140°F
(-30 to +60°C)

Relative Humidity:
90% @ 122°F (50°C)

Altitude:
15,000 ft (4572 m)

Programming:
Over-the-air download

Mounting:
Remote Mount

Construction:
Cast Metal

Microphone:
Weatherproof microphone (standard)
DTMF microphone (optional)

Speaker:
External, 10W

Signaling:
OpenSky TDMA
EDACS Digital Control
P25 Trunking
P25 Conventional
Conventional
Channel Guard (CTCSS)
Digital Channel Guard
G-STAR™ Emergency/ID Encode
Two-Tone Individual Call Decode

Options and Accessories

Remote mount kit, antennas, CH-103 Control Head, encryption, and system and scan CAN-based control units.

Transmitter

	700	800
Frequency Range (MHz):	764-776, 794-806	806-825, 851-869
Rated Power Output (W):	15 Half Duplex, 10 Full Duplex	
RF Output Impedance (ohm):	50	
Frequency Stability (ppm):	±1.5	
Modulation/Deviation (kHz):	±5 (±4 NPSPAC)	
FM Hum and Noise (dBc):	-37	
Audio Response:	+1/-3.0 dB from 6 dB/octave pre-emphasis: 300-2500 Hz	
Audio Distortion (typical):	<5% @ 1000 Hz	
Conducted Spurious and Harmonics (dBc):	-58	

Receiver

	700	800
Frequency Range (MHz):	764-776	851-869
RF Input Impedance (ohm):	50	
Channel Spacing (kHz):	12.5, 25	
Frequency Stability (ppm):	±1.5	
Sensitivity (EIA 12 dB SINAD):	0.28 µV/-115 dBm	
Selectivity (dB)		
@ 12.5 kHz:	-60	
@ 25 kHz:	-75	
Intermodulation @ 25 kHz (dB):	75	
Spurious Rejection (except 2nd image) (dBc):	-70	
FM Hum and Noise (dB):	-37	
Audio Output (W):	10	
Note: Numbers are per TIA-EIA-603 Methods.		

Environmental Specifications

Standard	Parameter	Methods &Procedures
MIL-STD-810F*	Low Pressure	500.3/1,2
	High Temperature	501.3/1,2
	Low Temperature	502.3/1,2
	Temperature Shock	503.3/1
	Solar Radiation	505.3/2
	Blowing Rain	506.3/1
	Humidity	507.3/2
	Salt Fog	509.3/1
	Blowing Dust	510.3/1
	Minimum Integrity Vibration	514.4/1, Category 10
	Functional/Basic Shock	516.4/1
	Transit Drop	516.4/2
TIA/EIA-603	Vibration Stability	Par. 2.3.4 & 4.3.4
	Shock Stability	Par. 2.3.5 & 3.3.5
U.S. Forest Service	Vibration Stability	Par. 7.15
*Also meets superseded MIL-STD-810C, -D and -E.		

Digital Operation

Protocol:	OpenSky	Project 25	TIA/EIA-603
Vocoding Method:	Advanced MultiBand Excitation (AMBE™)	P25 Improved MultiBand Excitation (IMBE™)	Not Applicable
Data Rate:	19.2 kbps	9.6 kbps	Analog
Modulation:	4-Level GFSK	C4FM	FM
Data Communication Mode:	Full Duplex	Half Duplex	Half Duplex

Encryption

Encryption Technique:	Non-Linear Product/Block Transformation
Algorithm Types:	Data Encryption Standard (DES)/Advanced Encryption Standard (AES) (P25)

Regulatory Data

Frequency Range (MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
806-869	15	1.5	BVSM7200	90	3670A-M7200	RSS-119
764-806	15	0.04	BVSM7200	90	NA	NA

M/A-COM Wireless Systems
P. O. Box 2000
Lynchburg, Virginia 24501
Phone: 1-800-368-3277
www.macom-wireless.com or www.opensky.com

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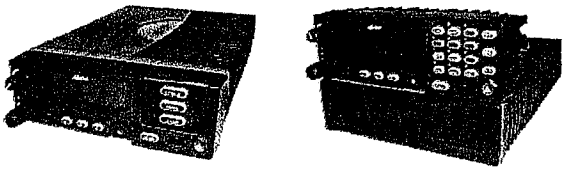
M7300 Mobile

700/800 MHz

The M7300 Mobile has

- *Multi-Mode functionality*
- *Dual-band operation*
- *Secure Communications*



The M7300 mobile is a state-of-the-art radio that trunks seamlessly between the 800 MHz frequency band and the newly available 700 MHz frequency band. The M7300 mobile is designed to meet the critical demands of its users.

Multiple Operating Modes
The M7300 mobile supports multiple operating modes, including OpenSky® digital trunked operation, Enhanced Digital Access Communications System (EDACS®) or ProVoice™ trunked modes, P25 digital trunked mode, P25 digital conventional mode, and conventional analog mode.

Mutual Aid Operation
The M7300 also provides Project 25 conventional capabilities for interoperability with other users in the 700/800 MHz bands.

GPS Capability
The optional Global Positioning System (GPS) receiver module can provide standard GPS formatted data over the air for vehicle tracking systems.

Secure Communications
The optional Advanced Encryption Standard (AES) is available for maximum communications security.

Over-the-Air Programming
OpenSky radios benefit from a flexible, software-based digital radio design. Features and user profiles are software-defined and can be reprogrammed over the air. The optional over-the-air programming feature allows communications protocols to be changed easily and added at any time.

High-Visibility Display
The M7300 radio uses the CH-721 Control Unit which is available in two models: System and Scan. The display is designed to maximize readability and ease of use. The CH-721 utilizes a 3-line 12-character alphanumeric display with large buttons, volume knob, and channel knob, providing a user-friendly interface.

About OpenSky
OpenSky is a secure integrated digital voice and data communication system. OpenSky leverages the power of Internet Protocol (IP) and packet technology for reliability and scalability to bring open data applications to the user. OpenSky uses a 19.2-kbps physical bit rate 4-slot Time Division Multiple Access (TDMA) airlink to achieve 6.25-kHz voice channel spectral efficiency and dynamic bandwidth allocation.

For More Information
For more information about this or any other Wireless Systems product from Tyco Electronics, call toll free in the U.S. or Canada 800-368-3277. From outside the U.S. call +1-434-455-6403.

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Solicitation # 0904-018

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Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

General Specifications

Dimensions (H x W x D):
Radio Only (30W):
2.0 x 6.9 x 9.2 in.
(50 x 175 x 233 mm)
RU and CU (Includes Knobs):
2.4 x 6.9 x 12.3 in.
(60 x 175 x 311 mm)
CU (Remote):
2.4 x 7.0 x 4.0 in.
(60 x 175 x 100 mm)

System Voltage:
10.8 to 16.5* VDC Negative Ground
*Not to exceed 14.3V above +50°C for motorcycle applications.

Ambient Temperature Range:
-22 to +140°F
(-30 to +60°C)

Relative Humidity:
90% @ 122°F (50°C)

Altitude:
15,000 ft (4572 m)

Duty Cycle:
TIA/EIA-603

Programming:
Field PC Programmable

Microphone:
Weatherproof microphone with hookswitch

Mounting:
Front or Remote Mount available

Construction:
Control Unit: High Impact Plastic
Transceiver: Cast Metal

Speaker:
External, 15W

Operation:
12 VDC Negative Ground

Signaling:
OpenSky TDMA
EDACS Digital Control
P25 Conventional
Conventional
Type 99
Channel Guard (CTCSS)
Digital Channel Guard
G-STAR™ Emergency/ID Encode
Two-Tone Individual Call Decode

Options and Accessories

Remote mount kit, system and scan control units, Hand Held Controller, mobile mic, DTMF mic, noise canceling mic, desk mic, desktop control station, and motorcycle kit.

Transmitter

	700	800
Frequency Range (MHz):	764-776, 794-806	806-825, 851-870
Rated Power Output EDACS and P25 (W):	19	35
Rated Power Output OpenSky (W):	19	30
RF Output Impedance (ohm):	50	
Frequency Stability (ppm):	±1.5	
Modulation/Deviation (kHz):	±5 (±4 NPSPAC)	
FM Hum and Noise (dBc):	-45 @ 25 kHz	
Audio Response:	+1/-3.0 dB from 6 dB/octave pre-emphasis; 300-2500 Hz	
Audio Distortion (typical):	2.5% @ 1000 Hz	
Conducted Spurious and Harmonics (dBc):	-65	

Receiver

	700	800
Frequency Range (MHz):	764-776	851-870
RF Input Impedance (ohm):	50	
Channel Spacing (kHz):	12.5, 25	
Frequency Stability (ppm):	±1.5	
Sensitivity @ EIA 12 dB SINAD (EIA): @ 5% BER (EIA):	 0.25 µV/-119 dBm 0.35 µV/-116 dBm	
Selectivity (dB) @ 12.5 kHz: @ 25 kHz:	 -60 -60	
Intermodulation @ 25 kHz (dB):	-77	
Spurious Rejection (except 2nd image) (dBc):	-90	
FM Hum and Noise (dB):	47	
Audio Output (W):	15	
Note: Numbers are per TIA-EIA-603 Methods.		

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F	Low Pressure	500.4, Proc. I, II
	High Temperature	501.4, Proc. I, II
	Low Temperature	502.4, Proc. I, II
	Temperature Shock	503.4, Proc. I
	Solar Radiation	505.4, Proc. II
	Blowing Rain	506.4, Proc. I
	Humidity	507.4
	Salt Fog	509.4, Proc. I
	Blowing Dust	510.4, Proc. I
	Min Integrity Vibration	514.5, Proc. I, Category 24
	Functional/Basic Shock	516.5, Proc. I
	Transit Drop	516.5, Proc. IV
TIA/EIA-603	Vibration Stability	Par. 2.3.4 & 4.3.4
	Shock Stability	Par. 2.3.5 & 3.3.5
U.S. Forest Service	Vibration Stability	Par. 7.15

Digital Operation

Protocol:	OpenSky	Project 25	TIA/EIA-603
Vocoding Method:	Advanced MultiBand Excitation (AMBE®)	P25 Improved MultiBand Excitation (IMBE™)	Not Applicable
Data Rate:	19.2 kbps	9.6 kbps	Analog
Modulation:	4-Level GFSK	C4FM	FM
Data Communication Mode:	Half Duplex	Half Duplex	Half Duplex

Encryption

Encryption Technique:	Non-Linear Product/Block Transformation
Algorithm Types:	Data Encryption Standard (DES)/Advanced Encryption Standard (AES) (P25)

Regulatory Data

Frequency Range (MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules
764-806	19	1.5	OWDTR-0051-E	90	36368-0051	RSS-119
806-870	35	1.5	OWDTR-0051-E	90	36368-0051	RSS-119

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