

Title: **Approved Subscriber Equipment**

Index: 103-B

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1. Purpose

- a. This policy describes the equipment currently approved by the PCWIN Board of Directors for use on the PCWIN voice radio network

2. Background

- a. PCWIN is a large regional radio network with many different agencies dependent upon its effectiveness and security for their operations. In order to control the many variables that could affect a system of this size the basic subscriber equipment to be used on the network has been restricted to the following list of equipment items

3. Policy Statement

- a. The following list enumerates the core items allowed on the PCWIN network
- b. Accessories manufactured by Motorola may also be permitted on the PCWIN network
 - i. Non-Motorola accessories must be purchased with caution as compatibility and serviceability may be compromised with aftermarket equipment
 - ii. Technical specifications of each radio are provided to aid in additional accessory purchases
 - iii. Contact your maintenance provider to determine what maintenance services, system compatibility and warranty are covered before you purchase ancillary items.

PUBLIC SAFETY PORTABLE RADIOS & ACCESSORIES

1. Single Band 800MHz Motorola APX6000 Series Radios

Model 2.5 w/Limited Keypad

Model 3.5 w/Full Keypad

Standard configuration for both models must include:

- APX Antenna 700/800/GPS (NAF5085A)
- TDMA Operation (QA00580)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)



2. Rugged Single Band 800MHz Motorola APX6000XE Series Radios

Model 2.5 w/Limited Keypad

Model 3.5 w/Full Keypad

FOR USE IN EXTREME ENVIRONMENTS

Standard configuration for both models must include:

- APX Antenna 700/800/GPS (NAF5085A)
- TDMA Operation (QA00580)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- APX6000XE Rugged Radio (AQ02006)
- H499 Rugged
 - FM LIION IMPRES 2300 MAH Battery (NNTN8092) w/FM Certification
 - IP67 (1m/30min)
 - Extreme 1-Sided Noise Reduction (QA01833)
- High Impact Green (QA01427)



3. Dual Band 800MHz/UHF or VHF Radio Motorola APX7000 H97TGD9PW1N

Includes front and top displays and full keypad

Standard configuration must include:

- 7/800MHZ Primary Band (QA00569)
- VHF Secondary Band (QA00574) or
 - UHF Secondary Band (Consult sales about selections for Range 1 or Range 2)
- Large Color Display and Full Keypad (QA00577)
- Enable Dual Band Operation (QA00579)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- TDMA Operation (QA00580)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- IMPRES Lion 2900 mAh standard battery (NNTN7038)
- Belt Clip 3.0" (QA01222)



4. Rugged Dual Band 800MHz/UHF or VHF Radio Motorola APX7000XE Model H49TGD9PW1AN

Includes front and top displays and full keypad

Standard configuration must include:

- 7/800MHZ Primary Band (QA00569)
- VHF Secondary Band (QA00574) or
 - UHF Secondary Band (Consult sales about selections for Range 1 or Range 2)
- Large Color Display and Full Keypad (QA00577)
- Enable Dual Band Operation (QA00579)
- ASTRO Digital CAI Operation (Q806)
- Smartzone Operation (H38)
- P25 9600 Baud Trunking (Q361)
- TDMA Operation (QA00580)
- Programming Over P25 (OTAP) (G996)
- Radio Packet Data (Q947)
- Advanced System Key – Software Key (QA01749)
- APX7000XE Housing Green (AQ01427AC)
- IMPRES FM/Delta T 2300 mAh standard battery (NNTN8092)
- APX7000XE Universal Carry Holder (PMLN5331)



ACCESSORIES

Accessories for APX6000:

IMPRES Remote Speaker Microphone (PMMN4062)

- Accessory connector IP67 Submersible
- One wire compatible
- Listed as compatible with APX6000



Standard Battery (PMMN4403)

- Impress compatible
- IP67 Submersible

APX6000 Universal Carry Holder w/3.0" Belt Clip (PMLN5709)

- Listed as compatible with APX6000

Accessories for APX6000XE:

IMPRES XE Remote Speaker Microphone (NNTN8203)

*Intrinsically Safe: Motorola approved accessories are a critical part of the specific radio and accessory system certified by a recognized testing organization as intrinsically safe. Non-Motorola approved accessories are not certified as part of the overall Motorola APX system. Use of non-Motorola approved accessories could result in equipment that is unapproved or unsafe in a hazardous environment.

- Accessory connector IP67 Submersible
- Intrinsically Safe (FM Approved)

- One Wire compatible
- Listed as compatible with APX6000XE



Intrinsically Safe Battery (NNTN8092)

- Impress compatible
- FM Approved
- IP67 Submersible

APX6000XE Universal Carry Holder w/3.0" Belt Clip (PMLN5880)

Chargers:

IMPRES Single Unit Charger (WPLN7080)

IMPRES Multi Unit Charger w/o Displays

IMPRES Vehicle Charger for ASTRO Digital APX Series (NNTN7624B)



PUBLIC SAFETY MOBILE RADIOS

1. Single Band 800 MHz Motorola APX6500 M25URS9PW1N

Standard Specifications for all Mounting Types

- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- Smartzone Omnilink Multizone System SW (G173)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- Over the Air Provisioning (G996)
- RS232 Packet Data Interface (W947)
- Palm Microphone (W22)
- Auxiliary Spkr 7.5 Watt (B18) w/Corresponding Kit (HSN4031)
- Antenna – ANT 3DB Low-Profile 762-870 (G174) w/Corresponding Kit (HAF4013)



Additionally, specify and order the correct control head and mounting hardware for your installation type:

1. Dash/Console Mount

a. Control Head

- i. APX05 Control Head (G442)
- ii. Control Head Software (G444)



b. Mounting

- i. Dash Mount 05 (G66)

2. Trunk/Remote Mount

a. Control Head

- i. APX05 Control Head (G442)
- ii. Control Head Software (G444)



b. Mounting

- i. Remote Mount Mid Power (G67)

3. Dual Control Head Mount

a. Control Head

- i. APX05 Control Head (G442)
- ii. Control Head Software (G444)
- iii. 05 Dual Control Head Option (GA00092)
- iv.



b. Mounting

- i. Remote Mount Mid Power (G67)
- ii. Cables Lengths
 - 1. Remote Mount CBL 10 Feet (G618)
 - 2. Remote Mount CBL 17 Feet (G628)
 - 3. Remote Mount CBL 30 Feet (G610)
 - 4. Remote Mount CBL 50 Feet (G609)
 - 5. Remote Mount CBL 75 Feet (G607)
 - 6. Remote Mount CBL 115 Feet (G879)

c. Speakers and Microphones – Order quantity two each



2. MOTORCYCLE RADIOS – Motorola Single Band 800 MHz APX7500 M3OURS9PW1N

Standard Specifications for all Mounting Types

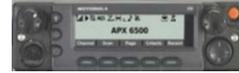
- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- Smartzone Omnilink Multizone System SW (G173)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)



- Advanced System Keys (ASK-DVN4046)
- Over the Air Provisioning (G996)
- RS232 Packet Data Interface (W947)

Control Head

- APX 05 Control Head (G442)
- Control Head Software (G444)
- APX7500 Motorcycle CH SFW (G138)



Mounting

- Remote Motorcycle Mount (G67BA)
- MC remote mount option is \$400 DUP

Antenna

- Antenna – ANT 3DB Low-Profile 762-870 (G174) w/Corresponding Kit (HAF4018)

Microphone

- Hand Mic, GCAI Water Resistant (G892)



Speaker

- Auxiliary Speaker Motorcycle (B18) w/Corresponding Kit (HSN6063)



3. APX7500 Dual Band Mobile – Mid Power Trunk/Remote Mount – Motorola M30TSS9PW1N

Standard specifications must include:

- 7/800 MHz Primary Band (GA00244)
- VHF MP Secondary Band (GA00308) or
 - UHF Secondary Band (Consult sales staff for Range 1 and Range 2 options)
- Enable Dual Band Operation (GA00579)
- ASTRO Digital CAI OP APX (G806)
- Smartzone Operation (G51)
- P25 Trunking Software (G361)
- TDMA Operation (GA00580)
- Advanced System Key – Software Key (QA01749)
- Advanced System Keys (ASK-DVN4046)
- Over the Air Provisioning (G996)
- RS232 Packet Data Interface (W947)



Control Head

- APX 05 Control Head
- Control Head Software
- Remote Mount Mid Power



Antenna

- Ant ¼ Wave 762-870 MHZ
- For VHF: ¼ Wave Roof Top 150.8-162

Microphone

- Keypad MIC GCAI

Speaker

- Auxilliary Spkr 7.5 Watt



PUBLIC WORKS PORTABLE RADIOS

1. Motorola APX4000 Model 2 w/Limited Keypad

Standard specifications must include:

- TDMA Operation (QA00580AF)
- Enh: 3600 or 9600 Baud SIN (QA02756AB)
- Programming Over P25 (OTAP) (G996AZ)
- Packet Data (IV&D And RS232) (Q947BG)
- Advanced System Key – Software Key (QA01749AB)



PORTABLE ACCESSORIES

Remote Speaker Microphone: IMPRES Remote Speaker Microphone (PMMN4062)

Battery:

- Standard Battery (NNTN8128)
- Intrinsically Safe Battery (NNTN8129)
- Impress compatible
- IP67 Submersible



Charger:

- IMPRES Single Unit Charger (WPLN4232)
- IMPRES Multi Unit Charger w/o Displays (WPLN4212)

Belt Clip: APX4000 2.0" Hard Plastic Belt Clip (PMLN4651)



PUBLIC WORKS MOBILE RADIOS

1. Motorola APX4500



4. Applies to

- a. All PCWIN members and participants

5. Supporting Rules

- a. None

6. Conditions for Exemption or Waiver

- a. If an agency desires core equipment not included in the itemized list, that agency must receive approval from the PCWIN Executive Director.