

Republic of the Philippines  
Department of the Interior and Local Government  
**NATIONAL POLICE COMMISSION**  
Quezon City

RESOLUTION No. 2015-425

**PRESCRIBING THE STANDARD SPECIFICATIONS FOR  
DIGITAL BASE RADIO TRANSCEIVER**

WHEREAS, Section 14, paragraphs (i) and (m) of Republic Act No. 6975, as amended by Section 5, paragraph (a), sub-paragraphs (5) and (8) of Republic Act No. 8551, empowers the Commission to “approve or modify plans and programs on education and training, logistical requirements, communications, records, information system, crime laboratory, crime prevention and crime reporting as well as prescribe minimum standards for arms, equipment and uniforms and, after consultation with the Philippine Heraldry Commission, for insignia of ranks, awards and medals of honor”;

WHEREAS, pursuant to the aforecited legal prescription, the PNP Uniform and Equipment Standardization Board (UESB) Resolution No. 2014-078, has recommended to the Commission for approval the Proposed Minimum Specifications for **Digital Base Radio Transceiver**;

WHEREAS, the Commission has determined that the item description “**Compatibility**” requirement is removed since the digital radio transceiver system is not compatible with the existing Motorola SmartNet II repeater and analog system but can be interoperable using integrator or gateway;

WHEREAS, the Commission has furthermore determined that the requirement for **Warranty, Trainings and other requirements** be removed since these are not considered specification per se but should rather be appropriately referred to in the Terms and Conditions during the procurement thereof;

WHEREAS, the Standard Specifications for **Digital Base Radio Transceiver** is not a tailored-fit specifications to any commercial brand of product and will enable participation by all interested manufacturers/suppliers in the market;

WHEREAS, after thorough review and evaluation, the Standard Specifications for **Digital Base Radio Transceiver**, is found in order to conform with the requirements of Republic Act No. 6975, as amended by Republic Act No. 8551 and its Implementing Rules and Regulations (IRR), all existing policies and issuances of the Commission to meet the requirements of the PNP;

NOW THEREFORE, the Commission in the exercise of its statutory powers to administer and control the PNP, **HAS RESOLVED, AS IT HEREBY RESOLVES**, to adopt and prescribe the Minimum Specifications for **Digital Base Radio Transceiver**, to read as follows:

#### I. GENERAL

- |                            |  |
|----------------------------|--|
| A. Keypad                  | Full Keypad (Alpha-Numeric)            |
| B. Channel/Mode Capability | 16 Talkgroups Channel Assignment, min. |
| C. Data Speed              | 9.6 Kbps, min.                         |

#### II. TRANSMITTER

- |                        |                       |
|------------------------|-----------------------|
| A. Frequency Range     | 806-824 MHz           |
| B. RF Output Power     | 10 watts, min.        |
| C. Channel Spacing     | Narrowband Compliant  |
| D. Frequency Stability | $\pm 0.0002\%$ , max. |
| E. Output Impedance    | 50 ohms               |

#### III. RECEIVER

- |                        |                       |
|------------------------|-----------------------|
| A. Frequency Range     | 851-870 MHz           |
| B. Channel Spacing     | Narrowband Compliant  |
| C. Frequency Stability | $\pm 0.0002\%$ , max. |
| D. Sensitivity         | 0.25microvolt, max.   |
| E. Input Impedance     | 50 ohms               |

#### IV. FEATURES

- A. Multi-Site Capable
- B. Compact Microphone
- C. PC Programmable
- D. Call ID Display
- E. Page/Call Alert
- F. Private/Individual Call
- G. Multigroup/Conference/Group Call
- H. Out-of-Range Indicator
- I. Over-the-Air Programming (inhibit and uninhibit/enable and disable)
- J. Text Messaging Service (Radio to Radio and Radio to Computer and Vice-Versa)

- K. Military Standard 810C, D, E, F and IP 54 or 55 or latest compliant
- L. Encryption (Built-in, can be enabled and disabled)
- M. Background Noise Cancellation (latest Version)
- N. Telephone Interconnect Capability
- O. LCD Display (2 lines or more)
- P. Global Positioning Capable
- Q. Data Inquiry System Capable
- R. Automatic Vehicular Locator System Capable
- S. Supports Direct Data Connection


#### V. ACCESSORIES

- A. Regulated Power Supply with Battery Charger
  - 1) 30 Amperes or higher
  - 2) 220 VAC input
  - 3) 13.8 VDC output
- B. Antenna
  - 1) Fiber glass
  - 2) 3dB gain or higher
  - 3) Omni Directional
  - 4) 800 MHz Band
- C. Antenna Mast
  - 1) Material: G.I. Pipe Schedule 40 with 10mm deformed bar step
  - 2) Length: Eighty (80) feet
  - 3) Diameter: 2 ½ inches
  - 4) For Guy Wire: G.I. Wire #10
  - 5) Turn Buckle 3/8"
  - 6) Base Plate Iron Sheet (12"x12"x1/4")
- D. Transmission Line Cable
  - 1) Material: Foam dielectric transmission
  - 2) Diameter: ½ inch or thicker
  - 3) Impedance 50 ohms
  - 4) Length: 40 meters, min.
- E. Back-Up Battery
  - 1) 12 VDC
  - 2) Deep Cycle
  - 3) Rechargeable
  - 4) 100 AH
- F. Lightning Protection – Industry Standard
- G. Complete Hardware Mounting

#### VI. MUST PASS THE PNP TEST AND EVALUATIONS

APPROVED this 28th day of AUGUST 2015, in Quezon City, Metro  
Manila, Philippines.

  
MAR ROXAS  
Chairman, NAPOLCOM   DILG-OSEC OUTGOING 15-03144

  
EDUARDO U. ESCUETA  
Commissioner-  
Vice Chairman and Executive Officer


  
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Commissioner

  
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Commissioner

  
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Commissioner

  
RICARDO C. MARQUEZ  
Commissioner

Attested by:

  
ADELMALYN A. MUNIEZA  
Chief, Secretariat