



Republic of the Philippines
NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
Camp BGen Rafael T Crame, Quezon City

DEC 29 2020

MEMORANDUM CIRCULAR
NO.: 2020 - 092

PRESCRIBING THE TECHNICAL SPECIFICATIONS FOR MOBILE PHONE

1. REFERENCES:

- a. NAPOLCOM Memorandum Circular (MC) No. 2019-002 entitled, "Defining the duty and Authority of the NAPOLCOM to Prescribe Minimum Standards for Uniforms, Arms, and Equipment to be Procured by the Philippine National Police" dated January 29, 2019;
- b. NAPOLCOM Resolution No. 2020-0764 entitled, "Prescribing the Minimum Standards for Mobile Device" dated September 11, 2020;
- c. NAPOLCOM Resolution No. 2015-061: "Amending NAPOLCOM Resolution No. 2010-028 by Prescribing the New Minimum Standards in the Specifications for Laptop/Notebook Computer" dated March 10, 2015; and
- d. PNP UESB Resolution No. 2020-037 entitled, "Approving the Proposed Technical Specifications for Mobile Phone" dated November 24, 2020.

2. RATIONALE:

This MC sets forth the technical specifications for Mobile Phone to be used by PNP personnel other than their personal smartphones during office or field works.

3. SITUATION:

The Philippine National Police is bracing for a digital transformation to keep up with the demands of the "New Normal" situation amid the COVID-19 pandemic.

Mobile Phone is considered as one of the essential devices nowadays due to its portability and the various services it can offer its users such as but not limited to voice and data communications, internet access, and applications/programs that make life easier especially in this fast-paced time.

The current situation led to a significant increase on the use of Information and Communication Technology (ICT) equipment particularly mobile phone, tablet computer, laptop, and desktop computers.

In line with the digital transformation, the Directorate for Logistics requested the updating of the existing standard specifications for Mobile Phone under NAPOLCOM Resolution Nos. 2015-117 through their memorandum dated

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May 11, 2020. The updated specifications have to be aligned with the NAPOLCOM approved standards and will be the basis in the future procurement of this device.

4. PURPOSE:

To provide and establish the technical specifications for Mobile Phone that will serve as reference in the procurement of said equipment.

5. DEFINITION OF TERMS:

- a. Chipset – refers to the group of microchips on a motherboard that allow all the components to communicate with the processor.
- b. Neural-Network Processing Unit (NPU) - refers to a specialized circuit that implements all the necessary controls and arithmetic logic necessary to execute machine learning algorithms.
- c. Graphics Processing Unit (GPU) - refers to a specialized, electronic circuit designed to rapidly manipulate and alter memory to accelerate the creation of images in a frame buffer intended for output to a display device.
- d. Central Processing Unit (CPU) – refers to the component of a computer system that controls the interpretation and execution of instructions. The term "processor" is often used to refer to a CPU.
- e. Random Access Memory (RAM) – refers to the main memory in a computer, smartphone or tablet. It is a temporary workspace where instructions are executed and data are processed.
- f. Wireless Local-Area Network (WLAN) – refers to a LAN communication technology in which radio, microwave or infrared links take the place of physical cables.
- g. WIFI Hotspot - refers to an area with wireless Internet access.
- h. Bluetooth – refers to a low-power wireless networking technology operating in the 2.4 GHz unlicensed Industrial, Scientific and Medical (ISM) band. There are two classes of Bluetooth device — Class 1 devices have higher output power and a range of about 100 meters, and Class 2 devices have lower power and a range of about 10 meters.
- i. Universal Serial Bus (USB) – refers to a standard for connection sockets on computers and other electronic equipment.
- j. Global Positioning System (GPS) - refers to a United States (US) satellite system that lets those on the ground, on the water or in the air determines their position with extreme accuracy using GPS receivers.
- k. Operating System – refers to a software that, after being loaded into the computer by an initial boot program, manages a computer's resources, controlling the flow of information into and from a main

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processor. It performs complex tasks, such as memory management, control of displays and other input/output peripheral devices, networking and file management, and other resource allocation functions between software and system components.

6. GUIDELINES:

a. SPECIFICATIONS:

1) Description

A Mobile Phone is a type of mobile device similar to a Tablet Computer but is smaller in size. This portable voice and data communications equipment is equipped with a touchscreen interface with color display and has sufficient processing power, internal memory, and storage intended to perform the following functions/applications:

- a) Voice and data communications;
- b) Install and process different applications;
- c) Can connect to internet through WiFi, 3G, 4G or latest 3GPP releases using web browser or installed applications;
- d) Create, edit, store and view documents/files in various formats;
- e) Can record, play and store voice and video files from low to high resolution in various formats; and
- f) Can capture, edit and store images from low to high resolution in various formats.

2) Technical Specifications

- | | |
|-----------------------------------|--|
| a) Chipset | : Latest appropriate chipset |
| b) Central Processing Unit | |
| (1) No. of cores | : Octa-core or higher |
| (2) Speed | : 2 GHz |
| c) Memory | |
| (1) RAM | : 8 GB |
| (2) ROM | : 128 GB |
| d) Operating System (OS) | : Latest appropriate OS |
| e) Graphics Processing Unit | : Latest appropriate GPU |
| f) Neural-network Processing Unit | : Latest appropriate NPU |
| g) Network | : 3G, 4G LTE/ 5G or higher |
| h) Interface/Connectivity | |
| (1) WLAN | : 802.11ac/ax |
| (2) WiFi direct or hotspot | |
| (3) Bluetooth | : v5.0 or latest technology |
| (4) USB | : USB 3.1 or latest |
| i) Camera | |
| (1) Rear | : 12 MP with autofocus |
| (2) Front | : 12 MP |
| j) Display | |
| (1) Type | : Capacitive touchscreen, 16M colors or higher |

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- (2) Size : 6.5 inch
- (3) Resolution : 2,640 x 1,200 pixels
- k) Video Recording : 720 to 4K or higher @ 30fps or higher
- l) Video Format : MP4
- m) Audio Format : MP3, AAC
- n) Battery : Lithium Ion or latest battery type/composition (Battery Life: 12 hours minimum)
- o) Security and Authentication : Face Recognition, Fingerprint
- p) Sensors : Accelerometer, Face ID or Fingerprint Sensor, Proximity Sensor, Ambient light sensor
- q) Global Positioning System : Built-in GPS
- r) Water and Dust Resistant : IP68

3) Accessories

- a) Earphone
- b) Fast Charger
- c) Owner's CD/Manual
- d) USB Cable
- e) Protective Casing
- f) Appropriate OTG USB Flash Drive (at least 1TB)

4) Warranty

At least 2 years warranty

7. REPEALING CLAUSE:

All other technical specifications contrary to or inconsistent with the provisions of this PNP MC are hereby rescinded, modified or amended.

8. EFFECTIVITY:

This MC shall take effect after 15 days from filing a copy thereof at the UP Law Center in consonance with Section 3, Chapter 2, Book VII of Executive Order 292 otherwise known as the "Revised Administrative Code of 1987," as amended.


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