

# PM451

## BRING SUPERIOR 4G CONNECTIVITY TO YOUR WORKPLACE

### Making outdoor tasks easier with LTE connection

The LTE option lets your employees continue to do their tasks without worrying about losing the network connection. Now being able to make data input/output with seamless connectivity on PM451, your workers can handle all warehouse logistics problems with ease - no matter where they are. Expect a fast and consistent WiFi connection anytime as well through 2x2 MU-MIMO technology.

### Revolutionize the way you capture data

PM451 is designed to run Android, the operating system of choice when it comes to rugged handheld terminals used in the warehouse. Accompanied by Point Mobile's unique Enterprise Mobility Kit (EmKit™), this device provides a fast and seamless user experience, minimizing the time and resources for training your workforce.

### Configure the PM451 just as you need it

The standard range 1D/2D imager reads all GS1 symbologies as well as poorly printed barcodes. You can opt for the extra long range imager version with a maximum reading distance of 29 meters (when decoding 100 MILS C39 RFL symbology). Two LED indicators on each side will instantly give you information about scanning. In addition, as an effort to meet various needs of our customers, PM451 will come with three types of keypad options which are Numeric, Function Numeric and Alpha numeric. Finally, the ergonomically designed optional gun grip will further increase the productivity of your workforce.

### Outstanding durability for rough warehouse tasks

As a heavy-duty mobile terminal, PM451 is tuned with an IP65 rating and a drop resistance of 2m (MIL-STD 810G). Combined with the ability to survive dramatic temperature changes and many more extreme conditions, PM451 is a device you can always rely on during the hardwork.



#### Industries

Transport & Logistics  
Manufacturing & WMS

#### Accessories

**Standard**  
AC/DC Power Adaptor  
Country Plug  
USB Type-C Cable  
Standard Battery (5,700mAh)  
Stylus  
LCD Protection Film

**Optional**  
Gun Handle  
Optional Battery (4,000mAh)  
Single Slot Cradle (opt. with Ethernet)  
4 Slot Charging Cradle  
4 Slot Battery Charger



## PERFORMANCE CHARACTERISTICS

### Main-Processor

Qualcomm® SDA660 2.2GHz Octa Core

### Operating System

Google Android Android 9.0 (upgradable to a newer version)  
(GMS certified) FOTA (Firmware Over The Air) update

### Memory and Storage

RAM 4GB  
ROM (NAND Flash) 64GB  
SIM 1 Micro SIM slot

### Sensor

Proximity sensor, Light Ambient sensor,  
Accelerometer

## PHYSICAL CHARACTERISTICS

### Dimensions

With standard batt. 214.94mm L x 77.26mm W x 39.25mm D  
8.46 in. L x 3.04 in. W x 1.55 in D

Grip 61.6mm  
2.43 in

Weight 450g / 15.87oz

### Display

4.3", IPS panel (480 x 800 pixel) WVGA  
LED backlight  
Daylight readable (min 500 nits)  
Wideviewing angle  
Multi-touch capacitive  
Corning Gorilla glass

### Power

STD Battery 5,700mAh Li-ion rechargeable  
OPT Battery 4,000mAh Li-ion rechargeable  
Back-up Battery 60mAh (10C) Li-ion rechargeable (Hot-Swap)

### Keypad

3 Keypad options Numeric, Function Numeric, Alpha numeric  
(backlit keys) keypad (optional)

### Voice and Audio

Built-in microphone and speaker

### Standard Communications

USB 2.0 Type C/OTG  
(supports battery charging PC, USB  
memory)

### Notification

LED Power (Charging, Battery Fault)  
Notification (Message, Scan)  
Vibration

## GLOBAL POSITIONING SYSTEM

### GPS

WiFi SKU : No GPS  
Phone SKU : Qualcomm GPS  
GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou

## WIRELESS

### Wireless WAN

EDGE/GPRS/GSM 900/1800/850/1900  
WCDMA B1/2/4/5/6/8/19  
LTE FDD B1/2/3/4/5/7/8/12/13/ 19/20/25/26/28  
LTE TDD B38/B40/41

### Wireless LAN

Radio IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v, IPv4,  
IPv6, 2x2 MU-MIMO

Data Rates 5GHz: 802.11a/n/ac: Up to 866.7 Mbps  
2.4GHz: 802.11b/g/n: Up to 300 Mbps

Operating Channels 1 to 13 (2412~2472MHz)  
36 to 165 (5180~5825MHz)

Channel Bandwidth 20, 40, 80 MHz

### Security and Encryption

WEP (40 or 104bit)  
WPA/WPA2 Personal (TKIP, AES)  
WPA/WPA2 Enterprise (TKIP/AES) -  
PEAP (MSCHAPv2, GTC),  
TLS, TTLS (PAP, MSCHAP, MSCHAPv2,  
GTC)  
PWD, SIM, AKA, AKA', LEAP  
CCX v4 supported  
WiFi Direct and Hot spot support

Fast Roam CCKM, 802.11r

### Wireless PAN

Bluetooth Integrated Bluetooth Class I, Ver. 5.0  
BLE support

## DATA CAPTURE

### Integrated Barcode Reader

1D barcode scanner SE965

2D barcode scanner N6703

Long range EX30

### Camera

Top 13MP with LED flash

### NFC (Near Field Communication)

NFC-Forum Reader For NFC Forum (Tag Types 1 To 5),  
(NFC-IP MODES) P2P Active (106 To 424 kbps) Initiator and  
Target, P2P Passive (106 To 424 kbps)  
Initiator and Target

Reader ISO/IEC 14443 A, ISO/IEC 14443 B  
(PCD - VCD) ISO/IEC 15693, Mifare Classic 1K/4K  
Mifare DESFire, Mifare UltraLight®,  
Sony FeliCa

## USER ENVIRONMENT

Operating Temperature -20°C to 60°C / -4°F to 140°F

Storage Temperature -40°C to 70°C / -40°F to 158°F

Humidity 95% Non-condensing

Drop Multiple drops from 1.8m (6ft) to concrete  
over the entire operating temperature range

Multiple drops from 2m (6.5ft) per  
MIL-STD 810G at room temperature

Rain / Dust Proof IP65  
(Sealing)

Tumble 1,000 cycle (2,000hits) at 1m / 3.3ft

Electrostatic Discharge ±15 kV air discharge  
±8 kV contact discharge

## REGULATORY APPROVALS AND COMPLIANCE

Certified CE, CB, RCM, KC, IC, FCC, IFITEL, NOM, NBTC, CU,  
FAC, NRCAN, DOE, CEC  
Environmental: RoHS III & WEEE compliant

## ENTERPRISE SOLUTION

SOTI, Airwatch, Teamviewer



Scan2Stage PC tool for provisioning Point Mobile  
Android devices. With Scan2Stage, IT  
administrator can prepare the settings of  
the device and make QR code for  
Scan2Set.

EmKiosk Kiosk application for Point Mobile  
devices. IT administrator can restrict the  
scope of the operator's system  
execution via EmKiosk to increase  
productivity and prevent distractions.

Direct Clone Solution for restoring the devices to the  
same settings with no internet  
connection. With Direct Clone, a Master  
PDA becomes a hotspot server and  
sends its backup file to nearby client  
devices to clone the settings.

## PULS - ANDROID UPDATE & SECURITY

PULS is Point Mobile's lifetime solution, which extends the  
life cycle of Android-based Point Mobile enterprise devices to  
up to seven years after a product launch.



Stay up-to-date with the latest updates for 7 years  
PULS comes free of charge for security patches & updates  
Get the latest Android version and its newest features  
Conveniently update your devices in the field by FOTA

For further information, please visit [www.pointmobile.com](http://www.pointmobile.com)  
or contact your regional sales representative.

## WARRANTY

Subject to the Terms and Conditions, PM451 carries 1 (one)  
year-warranty period from the date of purchase against the  
defective materials and manufacturing defects.

For the further inquiry, please contact:  
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