

# PM85

## STAY ON TRACK WITH THE ALL-PURPOSE MOBILE COMPUTER



### Powerful Android Platform

While using Android as an operating system for rugged handheld terminals has become the industry's standard, security patches and major updates are more important than ever. Our PM85 will be receiving updates and support up to Android Q, reducing the total cost of ownership dramatically. Stay up-to-date with the most convenient way of installing security patches or operating system versions by using our FOTA application (Firmware Over The Air).

### Ready for Any Rugged Task

Qualcomm Snapdragon Octa-core processor runs at 1.8GHz for maximum computing. Memory options are available up to 4GB RAM and 64GB ROM, so there is plenty of space for programs, apps and personal data. It has an IP67 rating and is 1.8m drop proof to concrete (MIL-STD 810G), even the 5" IPS panel is equipped with a capacitive Corning Gorilla glass which is shatter proof and scratch resistant.

### Brand New Scanner Brings Enhanced Performance

The new high-resolution scanner enhances reading performance, reading down to 3 mils resolution 1D barcodes with white LED illumination, which provides better readability of coloured barcodes and better imager capture results. It also supports OCR and EasyParse optional functions for driving licenses, boarding passes, and automotive part parsing for applications beyond barcodes. Lower power consumption helps increase the battery life for continuous workflow.

### Fully Equipped for Reliability

Stay in touch with your workers and customers with integrated LTE modem and Wifi support or use the PTT function, including dual speakers with 3W maximum output. PM85 supports band 28, the public protection and disaster recovery (PPDR) network frequency. To provide full power for a long working day, we added the 20 Slot Battery Cradle as an option for ready-to-go devices across a variety of applications.



# PM85

## PHYSICAL CHARACTERISTICS

### Dimensions

STD batt. 157.6mm L x 78mm W x 18.86mm D  
EXT batt. 157.6mm L x 78mm W x 23.26mm D

### Weight

STD batt. 256g / 9.03oz  
EXT batt. 315g / 11.11oz

### Display

5.0", IPS panel (1080 x 1920 pixel) FHD  
LED backlight  
Daylight readable (500 nits typical)  
Wideviewing angle  
Multi-touch capacitive  
Corning Gorilla glass

### Power

STD 2,900mAh Li-ion rechargeable  
EXT 5,800mAh Li-ion rechargeable

### Keypad

9 physical keys  
(Recent Apps, Home, Back, 2 Programmable,  
Scan, Volume up/down, Power)

### Voice and Audio

Two built-in microphones (Noise-cancelling)  
Dual speakers on front side (output max 3W)  
Receiver and headset jack (3.5mm)  
Bluetooth headset support  
PTT support

### Standard Communications

High speed USB 2.0  
(supports battery charging PC, USB memory,  
digital headset)

### Notification

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

Vibration

## PERFORMANCE CHARACTERISTICS

### Main-Processor

Qualcomm Snapdragon @ 1.8GHz Octa-core

### Operating System

Google Android Android 8.0  
(CTS & GMS is certified) FOTA (Firmware Over The Air) update is  
available via MS Azure™ Cloud

### Memory and Storage

RAM / ROM 3GB / 32GB or 4GB / 64GB  
Expansion Slot User accessible MicroSD up to 32GB SDHC  
SAM 2 Micro SAM slot  
SIM Dual-SIM card slot

### Sensor

Gyroscope, Digital Compass,  
Accelerometer, Light Ambient Sensor,  
Proximity Sensor

## USER ENVIRONMENT

### Operating Temperature

-20°C to 60°C / -4°F to 140°F

### Storage Temperature

-25°C to 70°C / -13°F to 158°F

### Humidity

95% Non-condensing

### Drop

1.8m (6ft) multiple drops to concrete,  
at room temp, based on MIL-STD 810G  
1.5m (5ft) multiple drops to concrete,  
across operating temperature range,  
based on MIL-STD 810G

### Water / Dust Proof (Sealing)

### Tumble

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

### Electrostatic Discharge

±15 kV air discharge  
±8 kV contact discharge

## DATA CAPTURE

### 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 (PCD - VCD)

ISO/IEC 14443 A, ISO/IEC 14443 B,  
ISO/IEC 15693, Mifare Classic 1K/4K,  
Mifare DESFire, Mifare UltraLight®, Sony FeliCa

### Camera

Rear 13MP with LED flash  
Front 5.0MP

### Integrated Barcode Reader

Honeywell N660x/3601 Slim Imager Engine (1D/2D barcode  
symbolologies)

## 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 B1/2/3/4/5/7/8/12/13/14/17/19/20/28  
LTE TDD B38/B39/B40/41

### Wireless LAN

Radio IEEE 802.11 a/b/g/n/ac/d/h/i/k/r/v,  
Data Rates IEEE 802.11a/n/ac: Up to 433 Mbps;  
IEEE 802.11a/b/g/n: Up to 150 Mbps  
Operating Channels 1 to 13 (2412~2472MHz),  
36 to 165 (5180~5825MHz)

### Channel Bandwidth

20, 40, 80 MHz

### Security and Encryption

WEP / WPA / WPA2 / WEP, RC4 Algorithm /  
TKIP, RC4 Algorithm / AES,  
Rijndael Algorithm EAP-FAST / EAP-TLS /  
EAP-TTLS / PEAP-GTC / PEAP-MSCHAPv2 /  
PEAP-TLS / LEAP /  
CCX v4 supported

### Fast Roam

CCKM, 802.11r

### Wireless PAN

Bluetooth Integrated Bluetooth Class I, Ver. 4.2

## REGULATORY APPROVALS AND COMPLIANCE

Certified CE, CEC, FCC, IC, PTCRB, KC, RCM, cUL, OTA, CTIA  
Environmental: RoHS III & WEEE compliant

## ENTERPRISE SOLUTION

SOTI, Airwatch, Teamviewer



EmKit

Power Launcher

Kiosk mode with system restriction  
Allows admin to restrict operator's  
access to system settings, MTP  
connection and screen capture

Direct Clone

Master PDA from IT admin become a  
secured local server for nearby Point Mobile  
Android device. With Direct Clone, restore  
network, system, scanner settings and  
apk file.

Scan2Set

Unique two-step feature for Point  
Mobile Android models that enables the  
fastest device deployment right out of  
the box

## ACCESSORIES

### Standard Accessories



AC/DC Power Adaptor

Country Plug



USB Type-C Cable

Standard Battery



Hand Strap

LCD Protection Film



### Optional Accessories



Extended Battery



Single-Slot Cradle



Single-Slot Ethernet Cradle



4-Slot Battery Charger



Dual Slot Cradle



4-Slot Cradle



Gun-Handle



RFID Gun-Handle



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