

# Anlage Datenblatt Kontrollgerät

## 1 Zweck und Geltungsbereich

Diese Anlage beschreibt das beim Regensburger Verkehrsverbund (RVV) eingesetzte Kontrollgerät des Typs Point Mobile PM85 sowie dessen technische Spezifikationen.

Beim RVV sind zum Zeitpunkt der Erstellung dieses Lastenhefts zehn (10) Geräte des Typs PM85 im aktiven Einsatz.

## 2. Gerätebeschreibung

POINT MOBILE DATA SHEET  
PM85-DS17-EN



# PM85

STAY ON TRACK WITH THE ALL-PURPOSE MOBILE COMPUTER

### Android zero-touch enrollment enabled by Google

Android zero-touch enrollment offers a seamless deployment method for corporate-owned Android devices making large scale roll-outs fast, easy and secure. Zero-touch makes it simple to configure devices online and have them shipped with enforced management so employees can open the box and get started. Enroll and deploy a wide variety of Android devices in bulk without any manual setup.

### 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 shatter proof and scratch resistant capacitive Corning Gorilla glass.

### Brand New Scanner Brings Enhanced Performance

The new high-resolution scanner enhances reading performance, reading down to 3 mills 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.

### Fully Equipped for Reliability

Stay in touch with your workers with integrated LTE modem and Wifi support as well as dual speakers with 3W maximum output. PM85 supports band 28, the public protection and disaster recovery (PPDR) network frequency. The optional 4 Slot Battery Cradle provides ready-to-go devices across a variety of applications.



### Industries

Retail  
Field Services  
Public Sector  
Transport & Logistics  
Hospitality

### Accessories

**Standard**  
AC/DC Power Adaptor  
Country Plug  
USB Type-C Cable  
Standard Battery  
Handstrap  
LCD Protection Film

**Optional**  
Extended Battery  
Single Slot Cradle (opt. Ethernet)  
Dual Slot Cradle  
\*Connect up to 3 Dual Slot Cradles to charge 6 devices at a time  
4 Slot Battery Charger

4 Slot Cradle (opt. Wall mount)  
Gun Handle (opt. UHF RFID)  
Stylus Pen



## POINT MOBILE DATA SHEET

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### PM85

#### PERFORMANCE CHARACTERISTICS

##### Main-Processor

Qualcomm Snapdragon @ 1.8GHz Octa-core

##### Operating System

Google Android Android 8.1 or 9.0  
(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 (Optional)  
Expansion Slot User accessible MicroSD up to 32GB SDHC and up to 256 GB SDXC  
SAM 2 Micro SAM slot  
SIM Dual-SIM card slot

##### Sensor

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

#### PHYSICAL CHARACTERISTICS

##### Dimensions (LxWxD)

STD batt. 157.6mm x 78mm x 18.86mm  
6.20in x 3.07in x 0.74in  
EXT batt. 157.6mm x 78mm x 23.26mm  
6.20in x 3.07in x 0.92in

##### 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)  
Widewiewing angle  
Multi-touch capacitive  
Corning Gorilla glass

##### Power

STD 2,900mAh Li-ion rechargeable  
EXT 5,800mAh Li-ion rechargeable  
Back-up Battery 60mAh (10C) Li-ion rechargeable (Hot-Swap)

##### Keypad

9 physical keys  
(All keys are programmable excluding the Power key)

##### 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

##### 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

#### GLOBAL POSITIONING SYSTEM

##### GPS

WiFi SKU : No GPS  
Phone SKU : Qualcomm GPS  
GNSS Receiver Support for A-GPS, GLONASS, Galileo, 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  
2xCA support B1+B5/B7/B8/B19  
B3+B5/B8/B19  
B2+B5/B17  
B4+B7/17  
B5+B7  
Cat6, 300M DL/ 50M UL

##### Wireless LAN

Radio IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v,  
Data Rates IEEE 802.11a/n/ac: Up to 433 Mbps;  
IEEE 802.11b/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(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

##### Fast Roam

CKKM, 802.11r

##### Wireless PAN

Bluetooth Integrated Bluetooth Class I, Ver. 5.0,  
BLE support

#### 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

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 5MP

##### Integrated Barcode Reader

Honeywell N6603/3603 Slim Imager Engine (1D/2D barcode symbologies)

#### 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)

IP67



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, CU, FAC, 'GCF, CEC, FCC, IC, PTCRB, KC, RCM, cUL, OTA, CTIA  
Environmental: RoHS III & WEEE compliant

\* under development

#### 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.



PULS Patches, Updates & Lifetime Support

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, PM85 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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