



BC-PDR-208

Handheld Mobile Computer



Black Copper BC-PDR-208 is an Android-based rugged mobile computer. With its highly customizable ability and abundant functions, enterprises can deploy this single device in many areas, including retail, warehouse management, logistics, asset tracking, fleet management and etc.



Specification

Physical Characteristics

Dimensions	176mm x 76mm x 29mm/ 6.93 x 2.99 x 1.14in
Weight	319g/ 11.25oz
Display	4" WVGA (480*800), 16.7M colors
Touch Panel	Rugged capacitive touch panel
Power	Main battery: Li-ion, 3200mAh Pistol battery: Li-ion, 5200mAh (optional)
Expansion Slot	1 PSAM, 1 SIM, 1 MicroSD(TF) slot
Interfaces	USB Micro-B
Audio	0.5W speaker, build-in microphone
Keypad	Numeric / Qwerty
Sensors	Light sensor, proximity sensor

Performance

Option 1	CPU: Qualcomm 1.3 GHz quad-core RAM+ROM: 2GB+16GB
Option 2	CPU: Qualcomm 1 GHz quad-core RAM+ROM: 1GB+8GB
Expansion	Supports up to 32GB Micro SD card

Developing Environment

Operating System	Android 5.1
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-4°F to 122°F / -20°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.2m/3.9ft drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.64ft falls at room temperature
Sealing	IP64 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n 2G: GPRS(900/1800MHz)
WWAN(Europe)	3G: WCDMA B1, B8 4G: FDD-LTE: B1, B3, B7, B8, B20
WWAN(America)	2G: GPRS(850/1900MHz) 3G: WCDMA B1, B2, B5 4G: FDD-LTE: B2, B4, B7, B17
WWAN (China)	2G: GPRS(850/900/1800MHz) 3G: WCDMA: B1 CDMA EVDD: EVDD Rev.A800MHz TD-SCDMA: B34, B39 4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3
Bluetooth	Bluetooth 4.0
GNSS	GPS, AGPS

InfraRed (Optional)

Wavelength	940nm
Frequency	38kHz
Range	> 4m
Protocol	DLT_645-2007

Barcode Scanning (Optional)

1D Scan Engine	Honeywell N4313/ Zebra SE965
Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Scan Engine	Zebra SE4500
Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch, Postal (KIX), etc.

RFID (Optional)

LF

Frequency	125kHz, 134kHz (FDX-B / HDX)
Protocol	ISO11784/5, ISO18000-2
Chips	R/O ID card, e.g. EM4100/4200, TK4100 R/W ID card, e.g. EM4305/HITAG S Animal tags Others for customization
Range	3-8cm

LF (with external antenna)

Frequency	134kHz (FDX-B+HDX)
Protocol	ISO11784/5
Chips	Animal tags Others for customization
Range	3-12cm, external antenna 3-20cm, with a 75cm extension antenna

HF

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693
Chips	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card CPU_B card ICODE II, TI2048, LRI64K Others for customization
Range	3-8cm

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

* For the UHF specifications, please check C4050 UHF specification sheet

Fingerprint (Optional)

Functions	Fingerprint enrollment, match, storage etc.
Sensor	TCS1 / TCS2SS (Capacitive)
Image Size (pixel)	TCS1: 256*360; TCS2SS: 208*288
Sensing Area (mm)	TCS1: 12.8*18; TCS2SS: 10.4*14.4
Resolution (dpi)	508
Standard	TCS1: FIPS, STQC; TCS2SS: ISO

Other Modules (Optional)

Camera	8MP Autofocus with flash
PSAM	ISO7816 Protocol, 1 PSAM slot

Accessories(See details in Accessory Guide)



AC Adapter



Snap-on



USB cable



Cradle (Optional)



Pistol (Optional)



Fingerprint (Optional)



External antenna (Optional)



Holster (Optional)



Battery



Wristband