

Industrial Data Terminal

BC-PDR-100



Features

- **Higer Power UHF System**
- **Dual-batterySystem**
- **HI-speed Barcode 2D/1D**
- **Plug&Play FP. Adapter**
- **Larger Display 3.5"**
- **3G Connection Options**
- **USB Host Mode Ready**
- **Familiar Windows CE**

Black Copper BC-PDR-100 UHF handheld data terminal was marked with compact size, portability, durability, functionality and flexibility, which is customized for enterprise administrative personnel and mobile staff, as well as business application and IT demands. BC-PDR-100 UHF integrates UHF read/write module, scanning engine, GSM/WCDMA/CDMA2000, GPS, Bluetooth, WI-FI, etc.

When using UHF data collection with larger capacity 8400mAh (max.)rechargeable li-ion battery, the working life has been overall improved. Adopting smart power management, users can check information at anytime such as battery information, working life, remaining battery, battery charging status. A set of advanced data capture module in various business fields can obtain abundant and accurate data automatically, matching the verified module with responsive staff. You can now choose

either 1D laser scanner with highest performance or 2D imager scanner capable of collecting 1D/2D barcodes to meet the high demand for barcode scanning.

Black Copper BC-PDR-100 UHF adopts industrial standard, a great amount of mobile solutions can be achieved with this device. Workers can enjoy a convenient and light-hearted working state with this model. The reduced deployment complexity greatly saves the operational cost, as well as significantly improves the work efficiency. For that, Black Copper BC-PDR-100 UHF can bring you the greatest return on investment.

Industrial Data Terminal BC-PDR-100

Accessories Standard



AC adapter



Main battery



Snap-on



USB cable



Cradle



Pistol grip



Stylus passive

Optional



Fingerprint snap-on



Carrying case



1D Barcode



2D Barcode



RFID



Fingerprint



GSM/3G



GPS/AGPS



Bluetooth



Wi-Fi

PHYSICAL CHARACTERISTICS

Dimension	192 × 87 × 151mm / 7.56 × 3.43 × 5.95in. (includes UHF module/antenna, pistol)
Weights	561g / 19.79oz. (includes UHF module / antenna, main battery, pistol (excludes battery)) 656g / 23.14oz. (includes UHF module / antenna, main battery, pistol (includes battery))
Display	3.5" TFT-LCD touch screen with backlight, 65k colors, 240 × 320px
Keypad	Numeric or full alphanumeric, 3 side buttons
Batteries	Main bat. rechargeable li-ion battery 3200mAh Pistol bat. rechargeable li-ion battery 5200mAh (with pistol grip)
Expansion slots	1PSAM, 1SIM / PSAM
Audio	0.5Watt speaker
Interfaces	USB Micro-B, Client mode/Host mode (Optional) USB Mini-B (Optional), RS-232 interface

PERFORMANCE CHARACTERISTICS

CPU	Cortex-A8, 800MHz
RAM	256MB RAM
Storage	4GB iNAND Flash MicroSD max.32GB expansion

PROGRAMMING ENVIRONMENT

Operating system	Windows Embedded CE6.0 Core Windows Embedded CE6.0 Pro (Optional)
SDK	Chainway software development kit
Language	C#, C++, VB.NET
Tool	Microsoft Visual Studio 2005/2008

USER ENVIRONMENT

Operating Temp.	-10 to 50°C / 14 to 122°F
Storage Temp.	-40 to 70°C / -40 to 158°F
Humidity	5% - 95%RH (Non-condensing)
Tumble Spec.	1,000times, 0.5m/1.6ft tumbles, in accordance with IEC tumble specification
Sealing / Drop Spec.	IP64 or IP65 (Optional); multiple 1.5m/4.9ft drops over operating temperature range, in accordance with MIL-STD 810G
ESD	+/-8kv VDC air discharge +/-4KV VDC direct discharge

COMMUNICATION

WLAN	Wi-Fi IEEE802.11b/g or IEEE802.11b/g/n enterprise (Optional)
WWAN (Optional)	GSM/GPRS 900/1800MHz or 850/900/1800/1900MHz or WCDMA (900 / 2100 MHz) or WCDMA (850 / 2100 MHz) or WCDMA (850 / 1900 MHz) or CDMA2000 EVDO: 800MHz
WPAN (Optional)	Bluetooth Class v2.0+EDR, typical range 5 - 10m

UHF READER

Frequency	865-868MHz / 920-925MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization (1.8dBi)
Power	1W (+10dBm to +30dBm)
R/W ranges	Option1, up to 3m/up to 9.84ft. / Option2, up to 5m/up to 16.4ft. (tags and environment dependant)

BARCODE SCANNER

1D Linear Scanner (Optional)

1D Laser/CCD	Symbol SE955 / SE655
Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.

2D Imager Scanner (Optional)

2D CMOS laser scanner	Symbol SE4500
Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, A ztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

PSAM SECURITY (OPTIONAL)

Baud rate	9600,19200,38400,43000,56000,57600, 115200
Protocol	ISO7816
Slot	2 slots (maximum)

BIOMETRIC FINGERPRINT (OPTIONAL)

Sensor	TCS255
Sensor type	capacitive, area sensor
Function	Enrollment, compare, deletion etc.
Resolution	508DPI
Memory	1,000 PCS fingerprints
Performance	FRR < 0.1%; FAR < 0.001%
Math time (1:1)	< 0.1 sec
Math time (1:N)	< 0.5 sec

GPS (OPTIONAL)

GPS/AGPS	u-blox NEO-6M low energy GPS chip
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