

Industrial Data Terminal

Android 4.4 OS
Google Play Market
Larger Screen 4"
Dual -battery System
Higher Expansive Modules
HI -speed Barcode 2D/1D
RFID LF/HF/UHF Bands
Plug&Play FP Adapter



1D Barcode



2D Barcode



RFID



Fingerprint



GSM/3G



GPS



Camera



Bluetooth



Wi-Fi

Black Copper BC-PDR200

is a series of Android Powered smart will be the Ideal choice for Key-business in mobile terminals, with data capture, data processing, and wireless solution for simplify task flow, enhance work efficiency communication PDA. It is with high reliability and high expand-short in time to meets industrial auto and accurate data collection is achieved in various level IP64(IEC Sealing) is sufficient for routine Application like field via a complete solution of premium options, the flexible railway inspection, road parking tool, vehicle inspection, solution among options and operator is suited up. You will express power inspection, warehousing management, and find out the enterprise with your business is always connected and highly efficient beneficial for on meeting industrial standard design to support various comes with world wide band WCDM 3G mobile Solution with the build in high performance technology multi-data and voice communication Cortex A7 1.3 GHz dual core Processor Technology, workers guarantee the real time communication and data efficiency enjoy a convenient and light hearted working state with this brings you the best return on Model



Specications

Physical Characteristics

Device Dimension:	153mm*75mm*29mm/6.02*2.95*1.14in.
Device Weight:	286g/10.09oz. (includes main battery)
Main Battery Dimension:	77mm*64.5mm*13mm/3.03*2.54*0.52in.
Main Battery Weight:	81.4g/2.87oz.
Display:	4in.WVGA(480*800) TFT-LCD touch screen (capacitive dual touch), 16.7M colors
Expansion:	1 PSAM, 1 SIM/PSAM, 1 MicroSD
Interface:	USB Micro-B, RS-232 (TTL Level)
Input Method:	Touch input and keyboard input
Batteries:	Main bat.Rechargeable li-ion polymer battery 3.7V/3200mAh Pistol bat.rechargeable li-ion polymer battery 3.7V/5200mAh (with pistol grip)
Audio:	0.5 watt speaker, build-in microphone
Keypad:	4TP keys, 3 function keys, 3 side buttons

Performance Characteristics

CPU:	1.3GHz Quad Core
RAM:	1GB RAM
Storage:	4GB build-in FLASH (standard), MicroSD/TF slot (max. 32GB expansion)

User Environment

Operating Temp.:	-10 to 50°C/14 to 122°F
Storage Temp.:	-40 to 70°C/-40 to 158°F
Humidity:	5%RH to 95%RH non-condensing
Drop Spec.:	1.2m/3.9ft. drop from concrete across the operating temperature range; meets and exceeds MIL-STD 810G
Tumble Spec.:	1,000times, 0.5m/1.64ft tumbles rolling by six contact surface, meets and exceeds MIL-STD810G
Sealing:	IP64
Electrostatic Discharge (ESD)	+/-15KV VDC air discharge +/-8KV direct discharge

Programming Environment

Operating System:	Android 4.0.4
SDK:	Chainway Software Development Kit
Language:	Java
Tool:	eclipse



1D Linear Scanner

1D CCD scanner:	Symbol SE655 (Optional)
Optical resolution:	5Mil min. width
Roll tolerance:	±25°
Pitch tolerance:	±65°
Skew tolerance:	±30°
Ambient light:	0ft.candles-10000ft.candles
Scan repetition rate:	50 per second
Scan angle:	53°±3°
Symbologies Supported:	Symbologies Supported: UPC/EAN, Bookland EAN, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Inverse 1D, MSI, GS1 DataBar
1D laser scanner Engine:	Symbol SE955 (Optional)
1D laser scan Engine:	4Mil minimum element width
Roll tolerance:	100%UPC at 5 in. ± 35° from vertical
Pitch tolerance:	Condition: 100%UPC at 5 in. ± 65° from normal
Skew tolerance:	Condition: 100% UPC at 5 in. ± 50° from normal
Ambient light immunity:	10000ft.candles (107640 lux)
Scan speed:	104(±)12 typical scans/sec (bidirectional)
Scan angle:	47°±35° (standard)/ 35°±3° (narrow-angle)
Symbologies supported:	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS

2D Imager Scanner

2D CMOS:	Symbol SE4500 (Optional)		
Sensor resolution:	752*480 pixel (gray)		
Roll tolerance:	360° from normal		
Pitch tolerance:	± 60° from normal		
Skew tolerance:	± 60° from normal		
Ambient light immunity:	9000ft.candles/96900 lux		
Aiming LED (VLD):	655nm ± 10nm		
Illumination element:	650nm ± 5nm		
Field of view:	Horizontal:40°, Vertical:25°		
Symbologies supported:	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)		
Decode ranges:	DL Focus	Near	Far
	5 mil Code 39	1.4 in./53 mm.	7.3 in./185 mm.
	100% UPC/ENA	1.6 in./41 mm.	12 in./305 mm.
	6.7 mil PDF417	2.8 in./86 mm.	4.5 in./114 mm.

Camera (Optional)

OV 500 mega pixels, auto focus

RFID (Optional)

Low Frequency: 125kHz - 134.2KHz (animal tag frequency)	
Frequency:	125kHz, 134.2KHz (FDX-B/HDX)
Protocol:	ISO11784/5
Types:	1) R/O ID card eg. EM4100/4200,TK4100 2) R/W ID card eg. EM4305/HITAG S 3) Others for customization
Range:	2cm to 10cm
High Frequency: 13.56mhz	
Frequency:	13.56MHz
Protocol:	ISO14443A/B, ISO15693
Types:	1) MF1 (S50/S70),MF0(Ultralight),MF3 (Desfire D40/D41/D81),CPU_A 2) CPU_B 3) iCODE II,TI2048,LR164K 4) Others for customization
R/W Distance:	2cm to 8cm
Ultra High Frequency: 865 to 925MHz	
Frequency:	865 to 868MHz/920 to 925MHz
Protocol:	EPC C1 GEN2/ISO18000 - 6C
Antenna parameters:	Right-hand polarization antenna(3dBi)
Power:	1W(+10dBm to +30dBm)
Range:	Option1, 1 to 3m/3.28 to 9.84ft. / Option2, 1 to 5m/3.28 to 16.4ft. (tags and environment dependant)
WiFi	
Protocol:	IEEE802.11b/g/n
Antenna:	Built-in
Frequency range:	802.11b - 2.4GHz, 802.11g-2.4GHz, 802.11n-2.4G
WLAN security:	WPA WPA/WPA2 personal, WPS2.0, WAPI (Hardware)
WWAN & Voice	
WCDMA/HSDPA/HSPA+ (850/2100MHz), GSM/GPRS/EDGE (850/900/1800/1900MHz)	
Bluetooth	
Bluetooth V2.1+EDR	
Bluetooth V3.0+HS	
Bluetooth v4.0 Low Energy (LE)	
GPS	
GPS (embedded A-GPS)	
SAM Security (Optional)	
PSAM T=0,T=1 (Optional)	
Protocol ISO7816	

Biometric Fingerprint (Optional)

Sensor:	TCS2SS
Sensor type:	capacitive, area sensor
Resolution:	508DPI
Function:	Enrollment, compare, deletion etc.
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



Pistol grip



Carrying case



Cradle



Snap-on



AC adapter



USB cable



Fingerprint snap-on



1D Laser/CCD



2D CMOS laser
Symbol SE955 / SE655
Symbol SE4500