



AUTOID8R SERIES HANDHELD TERMINAL

Datasheet



Jiangsu SEUIC Technology Co., Ltd



AUTOID8R PERFORMANCE CHARACTERISTICS

CPU	Marvell Intel XScale™ PXA3XX 806 Mhz
Operating System	Microsoft Windows CE 6.0 or Microsoft Windows Mobile 6.5
RAM	256MB
ROM	256MB
Expansion Slot	Micro SD Card,32GB SDHC compatible, 4GB standard
Interface/Communication	USB 2.0 Fullspeed
Keyboard	27keys(Standard) P+R material
	LED (buttons with backlit)
Display	3.2" industrial color LCD, 65536 colors
	240(W)×320(L)(QVGA)
Power source	Detachable 3.7V 3000Ah rechargeable Li-ion battery
	Quick charge: 3000mAh/4 hours charge time
	Built-in backup battery : non-removable 3.7V/60mAh rechargeable Li-ion battery
	Charging port: Standard Micro USB charging port, intelligently identify PC and special charger
Battery performance	Smart power-saving (intelligent sleep and brightness control of dynamic screen)
	Continuous working: : 8hours (bright screen, 600 times scanning per hour and WLAN transmission) ;
	System maintains: 15 min. (non main battery) ;
	RTC continuous working: 6 months (non main battery) ;
Notification	Sleep and standby: 100 hours(GPRS online), more than 200 hours(GPRS offline) ;
	Voice prompt
	Vibration
	Charging indicator
	Wireless indicator
Audio	Barcode scanning light
	Indicator of successful installing battery
Audio	Built-in loudspeaker、microphone ,earphone; outside wired headset
Dimension	152mm(length)×70mm(width)×27mm(height)
Weight(with standard battery)	275g (Battery included, slight difference according to detailed configuration)
Operating Temp	-20℃ to +50℃
Storage Temp	-40℃ to +60℃ (Battery included)
	-40℃ to +70℃ (Battery excluded)
Humidity	5% to 95% RH non-condensing
Sealing level rate	IP64
Drop Specification	Multiple drops to concrete: 4 ft./1.2 m across the operating temperature range
Tumble Specification	1000 times ,0.5m tumbles at room temperature (equivalent to 2000 times impact)



ESD	±15kV air discharge, ±8kV direct discharge
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AUTOID8R DATA CAPTURE OPTIONS

Option 1	1D High Performance Laser	SE955	Internal Code S1
Resolution	0.004 inch minimum element width		
ROTATE	±35°from vertical		
Pitch Angle	±65°from normal		
Skew Tolerance	±50°from normal		
Ambient Light Luminance	Sunlight:10,000ft. Candles(107,640Lux)		
	Artificiallight:450ft.candles(4,844Lux)		
Scan Depth	15.2cm(4mil), 64.1cm(55mil)		
Scan Frequency	min.92/sec, model: 104, max.116 times(bi-directional)		
Scan width	47°, 35°		
Laser Power	0.7mw±0.1mw		
Code Support	UPC-A, UPC-E, EAN-8, EAN-13, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI, etc		
Optional Model SE965 (Internal code 1S-1)	suitable for long-distance 1D barcode scanning		
Option 2	2D Imagers Scan Engine	Honeywell5100	Internal code S2
Field of View	Horizontal:39.6° , Vertical:25.7°		
Image Resolution	752(H)×480(V)Pixel		
Rotate	360°		
Pitch Angle	±60°from normal		
Skew Tolerance	±60°from normal		
Engine front focal length	Standard:8 inch,Best:5.3 inch, High density barcode: 2.9 inch		
Aiming Element (VLD)	655nm±10nm		
Illumination Element (LED)	635nm±5nm		
Ambient Light (Sunlight)	9000 ft. Candles(96,900Lux)		
Code Support	1D CODE: Aztec Mesas、Codabar、Codablock F、Code 11、Code 128、ISBT 128、GS1-128、Code 16K、Code 32 pharmaceutical(PARAF) 、Code 39(supports Full ASCII mode)、Code 49、Code 93 and 93i、Composite Symbology、EAN13(including BooklandEAN) 、EAN-8 、Interleaved 2 of 5(cross 25 code) 、Matrix 2 of 5 、MSI 、Plessy Code 、PosiCode 、Reduced Space Symbology(RSS-14,Rss Limited,RSS Expanded)(GS1DataBar)、Straight 2 of		



	<p>5 、 IATA、 Straight 2 of 5、 Industrial、 Telepen、 Trioptic Code、 UPC-A、 UPC-A with Extended Coupon Code(UCC Coupon Code)、 UPC-E、 UPC-E1、 Inverse 1D</p> <p>2D CODE: Aztec Code、 DataMatrix、 MaxiCode、 MicroPDF417、 OCR-A、 OCR-B、 PDF417、 QRCode、 MiroQRTCIF Linked Code 39(TLC 39)、 Inverse 2D</p> <p>POST CODE : 4-CB (4-State Customer Barcode) (Posta US4) (USPS 4-State) 、 AustralianPost、 British Post (UK Postal) (BPO 4-State)、 Canadian Post、 China Post、 ID-tag (UPU4-State)、 Japanese Post 、 KIX (Netherlands) Post (Dutch Postal) 、 Korea Post 、 PlanetCode (U.S.Planet) 、 Postn (U.S.Postnet)</p>
Optional Model SR (Internal code 2S-1)	suitable for low density or medium density range standard 1D/2D scanning
Optional Model SF (Internal code 2S-2)	suitable for medium density or high density range standard 1D/2D scanning
Optional Model HD (Internal code 2S-3)	suitable for ultrahigh density range standard 1D/2D scanning
Option 3	2D Imagers Scan Engine SymbolSE4500 Internal code S5
Sensor resolution	752(H)×480(V)Pixel Wide VGA
Rotate	360°
Pitch Angle	±60°from normal
Skew Tolerance	±60°from normal
Aiming Element (VLD)	655nm±10nm
Illumination Element (LED)	635nm±5nm
Ambient Light (Sunlight)	9000 ft. Candles(96,900Lux)
Optional Model: SR (Internal code:5S-1)	Optimized specially for low and medium density range 1D / 2D Bar code scanning
Optional Model: DL (Internal code :5S-2)	Optimized specially for medium and high density 1D / 2D bar codes as well as the PDF bar codes on driver's license and other identification documents, ideal for Access control and Identity management , wristband of patients and unit dose in Healthcare as well as the electronics industry
Optional Model HD (Internal code :5S-3)	Optimized specially for ultra high density 1D /2D bar code scanning , and direct part mark in the manufacturing industry
Option 4	GPS Internal code P3
Hot Start	<5 seconds (Average)
Warm Start (autonomous)	<35 seconds (Average)
Warm Start (with CGEE)	<10 seconds (Average)
Cold Start	<40 seconds (Average)
Precision	5 meters
Option 5	Image and Video capture Internal code C2



Resolution Ratio	2592*1944,1600*1200,1024*768,640*480
Focal Distance	Auto-focusing
Flashlight	User controllable flash
Pixel	5.0 megapixel
Back illuminated (BSI)	Support
Option 6	RFID Read/Write(HF) Internal code:H3
Standards Supported	Support ISO15693、ISO14443A/B (without encryption protocol) 、ISO14443(Aencryption) (Mifare one S50,S70 and its compatible cards)
Working frequency	HF frequency band 13.56MHz
Read range	0~6cm(Depends on the antenna and tags)

AUTOID8R WIRELESS DATA COMMUNICATIONS

Option 1	WLAN WIFI Internal code W4
Protocol	IEEE 802.11b/g/n
Frequency range	Depends on different countries (regions), 2.4GHz to 2.5GHz in normal
Number of Channels	CH1~CH14
Security	OPEN、WEP、WPA-PSK (TKIP) 、WPA2-PSK (TKIP+AES) OPEN、WEP、WPA2-PSK(TKIP+AES)、TLS、TTLS (MS-CHAP)、TTLS(MS-CHAP v2)、TTLS (CHAP)、TTLSMD5、TTLS-PAP、PEAP-TLS、PEAP(MS-CHAP v2)、WPA-AES、support CCXv4, etc
Output power	802.11b /11Mbps : 15 dBm ± 1.5 dB @ EVM ≤ -9dB 802.11g /54Mbps : 15 dBm ± 1.5 dB @ EVM ≤ -25dB 802.11n /65Mbps : 15 dBm ± 1.5 dB @ EVM ≤ -28dB
Sensitivity	802.11b @8% PER: - 1Mbps PER @ -93 dBm, typical 802.11g @10% PER: - 6Mbps PER @ -89 dBm, typical 802.11n @10% PER: - MCS=0 PER @ -86 dBm, typical
Transmission distance	>150 meters (Industrial grade AP, Open regions)
Data rate	802.11b : 1, 2, 5.5, 11Mbps 802.11g : 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps (20MHz ,Long GI,800ns) 802.11n : 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65,72.2Mbps (20MHz ,short GI,400ns)
Antenna	Internal single antenna
Option 2	WWAN GPRS Internal code G3
Frequency	850/900/1800/1900MHz
Transmitted Power	Class 4 (2W): GSM850 and GSM900 Class 1 (1W): DCS1800 and PCS1900
Character	GPRS the maximum down-load : 85.6kbps (Class 12, up-load and down-load are symmetrical) GPRS the maximum up-load: 85.6kbps (Class 12, up-load and down-load are symmetrical)



	Coded format: CS-1;CS-2;CS-3;CS-4
Option 3	WWAN WCDMA Internal code G4
Frequency	GSM/GPRS/EDGE: Dual band GSM 900/1800MHz UMTS/HSPA+: Dual band UMTS 900/2100MHz
Transmitted Power	Class 4 (+33dBm ±2dB) : EGSM900 Class 1 (+30dBm ±2dB) : GSM1800 Class E2 (+27dBm ± 3dB): GSM 900 8-PSK Class E2 (+26dBm +3 /-4dB) : GSM 1800 8-PSK Class 3 (+24dBm +1/-3dB) : UMTS 2100, WCDMA FDD Bdl Class 3 (+24dBm +1/-3dB) : UMTS 900, WCDMA FDD BdVIII
Data features	<p>HSPA Feature: 3GPP Release6,7 : The maximum down-load: 7.2Mbps, The maximum up-load: 5.7Mbps</p> <p>UMTS Feature: 3GPP Release 4: PS domain (data) – 384 kbps DL / 384 kbps UL CS domain (voice) – 64 kbps DL / 64 kbps UL</p> <p>GSM/GPRS/EGPRS Feature: GPRS: GPRS The maximum down-load: 85.6kbps (Class 12, up-load and down-load are symmetrical) GPRS The maximum up-load: 85.6kbps (Class 12, up-load and down-load are symmetrical)</p> <p>Coded format: CS-1;CS-2;CS-3;CS-4</p> <p>EGPRS: The Max. rate of each time-slot is 59.2 kbps; (MCS-9) EGPRS 8 time-slot the max. rate is 474 kbps (MCS-9)</p>
Option 4	WPAN Bluetooth Internal code BT
Standard	Bluetooth 2.1 (EDR)
Power	Class 2
Transmission Distance	>20 meters (Industrial grade Bluetooth adapter)

AUTOID8R THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

System software development	SEUIC's SDK
System environ programming	eMbedded Visual C++ 4.0
	Visual Studio 2008 (support.NET CF 3.5)

AUTOID8R PERIPHERALS AND ACCESSORIES

Standard Accessories	Universal Adapter×1、 USB Cable×1、 Touch Pen×2、 Hand Tether×1、 Battery×1
Optional Accessories	Handheld Belt, Battery charger, Multifunctional bag, Four-slot Battery Charger, Bluetooth Printer and Card Reader, Auto Adapter ,Cradle