



# AUTOID8HC SERIES HANDHELD TERMINAL

## Datasheet



Jiangsu SEUIC Technology Co., Ltd



## AUTOID8HC PERFORMANCE CHARACTERISTICS

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



ESD	±15kV air discharge, ±8kV direct discharge
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## AUTOID8HC 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	1D Imagers Scan Engine		Internal Code S4
Resolution	0.005 inch minimum element width		
ROTATE	±35°from vertical		
Pitch Angle	±65°from normal		
Skew Tolerance	±50°from normal		
Ambient Light Luminance	Sunlight: 10,000ft		
Scan Depth	13.5cm(5mil), 91cm(55mil)		
Scan Frequency	100±10times/sec		
Scan width	47°		
Laser Power	1.7mv±0.2mv		
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		
Option 3	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		



<b>Engine front focal length</b>	Standard:8 inch,Best:5.3 inch, High density barcode: 2.9 inch		
<b>Aiming Element (VLD)</b>	655nm±10nm		
<b>Illumination Element (LED)</b>	635nm±5nm		
<b>Ambient Light (Sunlight)</b>	9000 ft. Candles(96,900Lux)		
<b>Code Support</b>	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 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		
	2D CODE: Aztec Code、DataMatrix、MaxiCode、MicroPDF417、OCR-A、OCR-B、PDF417、QRCode、MiroQRTCIF Linked Code 39(TLC 39)、Inverse 2D		
	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)		
<b>Optional Model SR (Internal code 2S-1)</b>	suitable for low /medium density range 1D/2D scanning		
<b>Optional Model SF (Internal code 2S-2)</b>	suitable for medium / high density range 1D/2D scanning		
<b>Optional Model HD (Internal code 2S-3)</b>	suitable for ultrahigh density range 1D/2D scanning		
<b>Option 4</b>	<b>2D Imagers Scan Engine</b>	<b>SymbolSE4500</b>	<b>Internal code S5</b>
<b>Sensor resolution</b>	752(H)×480(V)Pixel Wide VGA		
<b>Rotate</b>	360°		
<b>Pitch Angle</b>	±60°from normal		
<b>Skew Tolerance</b>	±60°from normal		
<b>Aiming Element (VLD)</b>	655nm±10nm		
<b>Illumination Element (LED)</b>	635nm±5nm		



<b>Ambient Light (Sunlight)</b>	9000 ft. Candles(96,900Lux)
<b>Optional Model: SR (Internal code:5S-1)</b>	Optimized specially for low and medium density range 1D / 2D Bar code scanning
<b>Optional Model: DL (Internal code :5S-2)</b>	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
<b>Optional Model HD (Internal code :5S-3)</b>	Optimized specially for ultra high density 1D /2D bar code scanning , and direct part mark in the manufacturing industry
<b>Option 5</b>	<b>Image and Video capture Internal code C2</b>
<b>Resolution Ratio</b>	2592*1944,1600*1200,1024*768,640*480
<b>Focal Distance</b>	Auto-focusing
<b>Flashlight</b>	User controllable flash
<b>Pixel</b>	5.0 megapixel
<b>Back illuminated (BSI)</b>	Support
<b>Option 6</b>	<b>RFID Read/Write(HF) Internal code:H3</b>
<b>Standards Supported</b>	Support ISO15693、ISO14443A/B (without encryption protocol) 、ISO14443(Aencryption) (Mifare one S50,S70 and its compatible cards)
<b>Working frequency</b>	HF frequency band 13.56MHz
<b>Read range</b>	0~6cm(Depends on the antenna and tags)

### AUTOID8HC WIRELESS DATA COMMUNICATIONS

<b>Option 1</b>	<b>WLAN WIFI Internal code W4</b>
<b>Protocol</b>	IEEE 802.11b/g/n
<b>Frequency range</b>	Depends on different countries ( regions), 2.4GHz to 2.5GHz in normal
<b>Number of Channels</b>	CH1~CH14
<b>Security</b>	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 CCX v4,etc
<b>Output power</b>	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
<b>Sensitivity</b>	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
<b>Transmission distance</b>	>150 meters (Industrial grade AP, Open regions)
<b>Data rate</b>	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)
<b>Antenna</b>	Internal single antenna
<b>Option 2</b>	<b>WWAN GPRS</b> <b>Internal code G3</b>
<b>Frequency</b>	850/900/1800/1900MHz
<b>Transmitted Power</b>	Class 4 (2W): GSM850 and GSM900
	Class 1 (1W): DCS1800 and PCS1900
<b>Character</b>	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
<b>Option 3</b>	<b>WWAN WCDMA</b> <b>Internal code G4</b>
<b>Frequency</b>	GSM/GPRS/EDGE: Dual band GSM 900/1800MHz UMTS/HSPA+: Dual band UMTS 900/2100MHz
<b>Transmitted Power</b>	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 BdI Class 3 (+24dBm +1/-3dB) : UMTS 900, WCDMA FDD BdVIII
<b>Data features</b>	<b>HSPA Feature:</b> 3GPP Release6,7 : The maximum down-load: 7.2Mbps, The maximum up-load: 5.7Mbps <b>UMTS Feature:</b> 3GPP Release 4: PS domain (data) – 384 kbps DL / 384 kbps UL CS domain (voice) – 64 kbps DL / 64 kbps UL <b>GSM/GPRS/EGPRS Feature:</b> <b>GPRS:</b> 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) <b>Coded format:</b> CS-1;CS-2;CS-3;CS-4 <b>EGPRS:</b> 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)
<b>Option 4</b>	<b>WPAN Bluetooth</b> <b>Internal code BT</b>
<b>Standard</b>	Bluetooth 2.1 (EDR)
<b>Power</b>	Class 2
<b>Transmission Distance</b>	>20 meters (Industrial grade Bluetooth adapter)

**AUTOID8HC THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT**



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

## **AUTOID8HC PERIPHERALS AND ACCESSORIES**

<b>Standard Accessories</b>	Universal Adapter×1、 USB Cable×1、 Touch Pen×2、 Hand Tether×1、 Battery×1
<b>Optional Accessories</b>	Handheld Belt, Battery charger, Multifunctional bag, Four-slot Battery Charger, Bluetooth Printer and Card Reade,

## **AUTOID8HC CLEANING AND DISINFECTING**

**The following chemicals are known to damage the plastics on AutoID8HC serie mobile computer and should not come in contact with the device:**

Diethyl ether; Aromatic and chlorinated hydrocarbon; Decolorizer/sodium hypochlorite; Ammonia solution; Ammoniate; Acetone; Ketone; Amine; Methylbenzene; Trichloro ethylene; Benzene; Carboic acid; Water or alcohol alkaline solution; TB-lysoform

### **APPROVED CLEANING AGENT INGREDIENTS:**

Hydrogen peroxide ; Ethyl alcohol ; Isopropyl alcohol ; Mild dish soap

### **CLEANING ADVICE:**

Dampen a soft cloth with one of the approved cleaning agents listed above or use pre-moistened wipes, Never dip the AutoID8HC serie into any liquid. Do not wrap the device in the cloth or pre-moistened wipe, gently wipe all surfaces. Be careful, do not spray or spill any liquid on the display window or any other area on the device. Allow the device to air dry before use.

### **SPECIAL NOTE:**

Vinyl gloves contain additional agent phthalic acid which could damage the housing of AutoID8HC series. Please wash your hands and remove the residuum after taking off the gloves. Some hand sanitizers commonly used in the healthcare environment may contain the harmful ingredients listed above, such as ethanolamine. Hands must be completely dry before handling AutoID8HC devices to prevent inadvertent contamination with known harmful ingredients and damage to the plastics.