



AUTOID7P SERIES HANDHELD TERMINAL

Datasheet



Jiangsu SEUIC Technology Co., Ltd



AUTOID7P Performance Characteristics

CPU	Marvell Intel XScale™ PXA3XX 806 Mhz
Operating System	Microsoft Windows CE or Microsoft Windows Mobile
RAM	256MB
ROM	512MB
User's Memory Expansion	Micro SD Card ,32GB SDHC compatible
Interface/Communication	RS232、USB2.0 Full Speed
Keyboard	29 keys (Standard)P+R material
	LED (buttons with backlit)
Display	2.8" industrial color LCD , 65536 colors
	240(W)×320(L)(QVGA size)
Power source	Detachable 3.7V 2700Ah rechargeable Li-ion battery
	Quick charge :2700mAh/4 hours charge time
	Charging port: special industrial-grade
	Built-in backup battery: non-removable 3.7V/55mAh rechargeable Li-ion battery
Battery performance	Continuous working: 6 hours (bright screen, 600 times per hour scanning and WLAN transmission) ;
	System maintains: 60minutes (non standard battery) ;
	RTC continuous working: 48hours (non standard battery) ;
	Sleep and standby: no less than 200 hours (off-line) ;
	no less than 100 hours (GPRS online) ; no less than 50 hours (EVDO online)
Notification	Voice prompt Vibration Charging indicator Barcode scanning light Battery cover detect indicator
Audio	Built-in loudspeaker; outside wired headset
Dimensions	Upper: 180mm(length)×66.6mm(width)×47.8mm(height)
	Bottom: 180mm(length)×56mm(width)×31mm(height)
Weight(with standard battery)	330g±5g (with battery, slight differ 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	IP65
Drop Specification	Multiple drops to concrete: 5ft./1.5m across the operating temperature range
Tumble Specification	1000times 0.5m tumbles at room temperature (equivalent to 2000 times impact)
ESD	±15kV air discharge, ±8kV direct discharge



AUTOID7P Data Capture Options

Option 1	1D High Performance Laser Scan Engine 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 Immunity	sunlight:10,000ft. Candles(107,640Lux)
	Artificiallight:450ft.candles(4,844Lux)
Scan Depth	15.2cm(4mil), 64.1cm(55mil)
Scan Rate	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 module SE965 (internal code 1S-1)	For long distance
Option 2	2D scan engine Honeywell15100 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、Plessey 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
	Zip 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)
Optional Model SR (Internal code 2S-1)	Be suitable for low density or medium density range standard 1D/2D scanning
Optional Model SF (Internal code 2S-2)	Be suitable for medium density or high density range standard 1D/2D scanning
Optional Model HD (Internal code 2S-3)	Be suitable for high density range standard 1D/2D scanning
Option 3	2D Laser 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)	Offers the best range and performance on medium and low density 1D and 2D barcodes
Optional Model: DL (Internal code:5S-2)	Optimized for medium to high density bar codes as well as the bar codes found on driver's licenses and other identification documents, ideal for border crossings as well as the healthcare and electronics industry
Optional Model: HD (Internal code:5S-3)	Optimal design special for high density 1D and 2D bar code

AUTOID7P Wireless Data Communications

Option 1	WLAN WIFI Internal code W1
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 CCX v4 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)
Option 2	WLAN WIFI Internal code:W2
Protocol	IEEE 802.11b/g
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 CCX v4 etc.
Output power	802.11b: typical 19dBm $\pm$ 1.5dBm
	802.11g: typical 15dBm $\pm$ 1.5dBm
Sensitivity	Typical: 1 Mbps: -96 dBm 6 Mbps: -94 dBm 54 Mbps: -75 dBm
Transmission distance	>170 meters (Industrial grade AP, Open regions)
Data rate	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Antenna	Internal double antennas
Option 3	WWAN GPRS Internal code: G1
Frequency	850/900/1800/1900MHz
Transmitted Power	Class 4 (2W): GSM850 and GSM900
	Class 1 (1W): DCS1800 and PCS1900
Data feature	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 4	WWAN EVDO Internal code: E2
Frequency	800MHz
Transmitted Power	CDMA 800Mhz: +23dBm (Power Class 3)
Data feature	IS-856-0 protocol standard:



	Forward single user peak rate: 2.4576Mbit/s Inversion single user peak rate: 153.6kbit/s IS-856-A protocol standard: Forward single user peak rate: 3.1Mbit/s Inversion single user peak rate: 1.8Mbit/s
Option 5	WPAN Bluetooth Internal code BT
Standard	Bluetooth 2.1 (EDR)
Power	Class 2
Transmission Distance	>20 meters (Industrial grade Bluetooth adapter)

AUTOID7P The third party application development support

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

AUTOID7P Peripherals and Accessories

Standard Accessories	Universal Adapter×1, USB Cable×1, Touch Pen×2, Hand Tether×2, Hand Belt×2, Battery×1
Optional Accessories	Single Battery Charger, Cradle, Car adapter, Multifunctional fabric case, Four Slot Battery Charger, Bluetooth Printer and Card Reader etc.