



AUTOID6 SERIES HANDHELD TERMINAL

Datasheet



Jiangsu SEUIC Technology Co., Ltd



AUTOID6 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 Space (Optional)	Optional with non-removable built-in bulk-storage memory (4GB)
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Interface/Communication	RS232、USB2.0 Full Speed
Keyboard	28 keys(Standard) P+R material LED (buttons with backlit)
Display	3.5" industrial color LCD, 65536 colors 240(W)×320(L)(QVGA)/480(W)×640(L)(VGA)
Power source	Detachable 3.7V 2700mAh rechargeable Li-ion battery Quick charge : 2700mAh/4 hours charge time Charging port: special industrial-grade Built-in backup battery: non-removable 3.7V/60mAh rechargeable Li-ion battery
Notification	Voice prompt Vibration Charging indicator Barcode scanning light Battery cover detect indicator
Audio	Built-in loudspeaker、microphone (optional) ,earphone (optional) ; wired headset
Dimension	158mm(length)×84mm(wide)×39mm(height)
Weight(with standard battery)	380g-500g (with battery, slight differ according to detailed configuration)
Operating Temp	-20°C to +50°C
Storage Temp	-40°C to +60°C (Battery included) -40°C to +70°C (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

AUTOID6 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 Immunity	Sunlight: 10,000ft. Candles(107,640Lux) Artificial light: 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	0.7 mw±0.1 mw
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 2	1D Laser 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 Immunity	Sunlight:10,000ft
Scan Depth	13.5cm(5mil), 91cm(55mil)
Scan Rate	100±10 times/sec.
Scan Width	47°
Laser Power	1.7mw±0.2mw
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
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



	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)
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 4	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)	Offers the best range and performance on medium and low density 1D and 2D barcode
Optional Model: DL (Internal code :5S-2)	Optimized for medium to high density bar codes as well as the bar codes (PDF)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
Option 5	DPM 2D Scanning Engine Internal code
Field of View	Horizontal:34.4° , Vertical:22.2°
Sensor resolution	752(H)×480(V) Pixel Wide VGA
Rotate	360°
Pitch Angle	±86°from normal
Skew Tolerance	±61°from normal
Ambient Light	0-100000 lux
Illumination Element (LED)	635nm±5nm Variable brightness is white light
Readable DPM type	stippling、 laser printing etc.
Option 6	RFID read/write(UHF) Internal code U7s (directed antenna)
Standards Supported	ISO-18000-6C、 EPCC1G2
Frequency Range	840-960MHz(Depends on different countries/regions),920-925MHz is default
Operating Mode	Broad-spectrum frequency hopping (FHSS) or Fixed frequency transmitter
Output Power	10~30dBm(depending on countries or regions)
Read Range	0-500cm (directed antenna)
Write Range	0-200cm
Read Speed	Average reading access time (32bits) 12ms
Write Speed	Average writing access time (32bits) 60ms
Power Consumption	<2.5W (Average)
Option 7	RFID read/write(UHF) Internal code U8(omnidirectional)



antenna/U8S(directed antenna)	
Standards Supported	ISO-18000-6C、EPCC1G2
Frequency Range	840-960MHz(Depends on the different countries or regions), 920-925MHz is default
Operating Mode	Broad-spectrum frequency hopping (FHSS) or Fixed frequency transmitter
Output Power	5~30dBm(depending on countries or regions)
Read Range	0-800cm (omnidirectional antenna) 0-1000cm (directed antenna)
Write Range	0-400cm
Multi tags read	>60 pieces at the same time (omnidirectional antenna)
Read Speed	Average reading access time (32bits) 12ms
Write Speed	Average writing access time (32bits) 60ms
Power Consumption	<4W (Average)
Option 8	RFID read /write(UHF) Internal code U10
Standards Supported	ISO-18000-6C、ISO-18000-6B、C1G2
Frequency Range	840-960MHz(Depends on the different countries or regions), 920-925MHz is default
Operating Mode	Broad-spectrum frequency hopping (FHSS) or Fixed frequency transmitter
Output Power	21~30dBm(depending on countries or regions)
Read Range	ISO-18000-6C: 0-300cm ISO-18000-6B: 0-100cm
Write Range	ISO-18000-6C: 0-150cm ISO-18000-6B: 0-70cm
Read Speed	Average reading access time(32bits) 12ms
Write Speed	Average writing access time (32bits) 60ms
Power Consumption	<3.6W (Average)
Option 9	GPS Internal code G2
Hot Start	<2 seconds (Average)
Warm Start (autonomous)	<35 seconds (Average)
Warm Start (with CGEE)	<10 seconds (Average)
Cold Start	<40 seconds (Average)
Precision	5 Meters
Option 10	Image and Video capture Internal code C2
Video Format (for Mobile)	WMV
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

AUTOID6 Wireless Data Communications

Option 1	WLAN WIFI Internal code W1/W3
Protocol	IEEE 802.11b/g/n
Frequency Range	All country dependent: 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 AP , open environment)
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	WLAN WIFI Internal code W2
Protocol	IEEE 802.11b/g
Frequency Range	All country dependent: 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 ± 1.5dBm
	802.11g: typical 15dBm ± 1.5dBm
Sensitivity	Typical: 1 Mbps: -96 dBm 6 Mbps: -94 dBm 54 Mbps: -75 dBm
Transmission Distance	>170meters (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
Character	GPRS The maximum down-load: 85.6kbps (Class 12, up-load and down-load are asymmetrical) GPRS The maximum up-load: 85.6kbps (Class 12, up-load and down-load are symmetrical)



	Code 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)
Character	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	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
Character	HSPA Feature: 3GPP Release6,7 : The maximum down-load: 7.2Mbps, The maximum up-load: 5.7Mbps UMTS Feature: 3GPP Release 4: PS domain (data) – 384 kbps DL / 384 kbps UL CS domain (voice) – 64 kbps DL / 64 kbps UL 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) Coded format: CS-1;CS-2;CS-3;CS-4 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)
Option 6	WPAN Bluetooth Internal code BT
Standard	Bluetooth 2.0 (EDR)
Power	Class 2
Transmission Distance	>20 meters (Industrial grade Bluetooth adapter)

AUTOID6 The third party application development support

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



AUTOID6 Peripherals and Accessories

Standard Accessories	Universal Adapterx1、USB Cablex1、Touch Penx1、Hand Tetherx2、Hand Beltx2、Batteryx2、Fabric Casex1、Battery Chargerx1
Optional Accessories	Single Battery Charger , Cradle, Four Slot Battery Charger、Bluetooth Printer and Card Reader、Auto Adapter etc

DIRECTIONAL ANTENNA AND OMNI-DIRECTIONAL ANTENNA OPERATING MODE

Different UHF Antennas



Directional Antenna



Omni-Directional Antenna