



A7P SERIES PORTABLE TERMINAL PRODUCT SPECIFICATION V1.3



1. AUTOID® 7P PERFORMANCE, PHYSICAL AND USING PARAMETERS

CPU	Ti ARM® Cortex™-A8 AM3715 1GHz
Operating System	Microsoft®Windows®CE 6.0
RAM	512MB
ROM	512MB
User Storage	4GB (built-in and irremovable)
Storage Expansion	Micro SD Card 32GB SDHC compatible
Interface/Communication	RS232、USB2.0 FullSpeed、USB OTG
Keypad	29 Keys(standard)P+R material
	LED (buttons with backlight)
Display	2.8" industrial color LCD , 65536 colors
	240(W)×320(L)(QVGA)
Power	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 (without main battery)
	RTC continuous working:48hours (nonstandard battery)
	Sleep and standby: no less than 200 hours (off-line) no less than 100 hours (GPRS online)
Notification	Voice prompt
	Vibration
	Charging indicator
	Barcode scanning light
	Battery cover status detect indicator
Audio	Built-in loudspeaker, outside wired headset
Dimension	Upper:180mm(length)×66.6mm(width)×47.8mm(thickness)
	Bottom:180mm(length)×56mm(width)×31mm(thickness)
Weight(including standard battery)	330g±5g(Including battery depends on differs by 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	IP65
Drop Specification	Multiple 5 ft./1.5m drops to concrete across the operating temperature range
Tumble Specification	1,000 1.64 ft./0.5 m tumbles (2,000 impacts)
ESD	±15kV Air discharge, ±8kV direct discharge

2. AUTOID® 7P DATA CAPTURE FUNCTION PARAMETERS

Function 1	1D Advance Laser Scan Engine (Option 1)
Optical resolution	5mil
Rotate	±35°from vertical
Pitch Angle	±65°from normal
Skew Tolerance	±40°from normal
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificial light: 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° /10°
Laser Power	Class II
Code Support	UPC/EAN, POST, Code 128,Code 39, Code 93,Code 11,Codabar,Interleaved 2 of 5,Discrete 2 of 5,Chinese 2 of 5,MSI,RSSI etc.
Function 2	1D Laser Scan Engine (Option 2)
Scan Accuracy	5mil
Rotate	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificial light: 450ft.candles(4,844Lux)
Scan Depth	13.5cm(5mil),91cm(55mil)
Scan Frequency	100±10/sec.
Scan Width	47°
Laser safety grade	Class 2
Code Support	UPC/EAN, POST, Code128,Code 39, Code 93,Code 11,Codabar,Interleaved 2 of 5,Discrete 2 of 5,Chinese 2 of 5,MSI,RSSI etc.
Function 3	1D Laser Scan Engine (Option 3)
Scan Accuracy	5mil
Rotate	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificial light: 450ft.candles(4,844Lux)
Scan Depth	17.78cm(5mil), 66.04cm(15mil)
Scan Frequency	100±10/sec.
Scan Width	47°/35°/10°
Laser safety grade	Class 1
Code Support	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI etc.
Function 4	2D Imager Scan Engine (Option 4)
Field of View	Horizontal:41.4°,Vertical:32.2°

Sensor Resolution	844(H) x 640(V)Pixel
Rotate	360°
Pitch Angle	±45°from normal
Skew Tolerance	±60°from normal
VLD	528nm ± 10nm
LED	617nm ± 10nm
Ambient Light(Sunlight)	0-100000 Lux
Code Support	1D code: UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post; 2D Stacked: PDF417, MicroPDF417, GS1Composite; 2D image: Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code; Postal: Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code; OCR option: OCR-A, OCR-B, E13B (MICR)
Function 5	2D Imager Scan Engine (Option 5)
Sensor Resolution	752(H)x480(V) Pixel Wide VGA
Rotate	360°
Pitch Angle	±60°from normal
Skew Tolerance	±60°from normal
VLD	655nm±10nm
LED	635nm±5nm
Ambient Light(Sunlight)	9000 ft. Candles(96,900Lux)
Optional Model: SR	Offers the optimization of performance on medium and low density 1D and 2D barcodes
Optional Model: DL	Optimized for medium to high density bar codes, ideal for the bar codes found on driver's licenses and other identification documents applied in access control fields, the barcodes in health care for wristband and dosage and those common high-density barcodes in electronic industry.
Optional Model: HD	Optimized and designed especially for super-high density 1D and 2D bar code on components in manufacturing industry.

3. AUTOID® 7P WIRELESS DATA COMMUNICATIONS

Function 1	WLAN WIFI (Option 1)
Protocol	IEEE 802.11b/g/n
Frequency Range	Depends on different countries (regions), 2.4GHz to 2.5GHz in normal
Working Channel	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 \pm 1.5 dB @ EVM \leq -9dB
	802.11g /54Mbps : 15 dBm \pm 1.5 dB @ EVM \leq -25dB
	802.11n /72Mbps : 15 dBm \pm 1.5 dB @ EVM \leq -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)
Function 2	WWAN GPRS (Option 2)
Frequency Band	850/900/1800/1900MHz
Transmitted Power	Class 4 (2W): GSM850 and GSM900
Channels	Class 1 (1W): DCS1800 and PCS1900
Communication Rate	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
Function 3	WPAN Bluetooth (Option 3)
Standard	Bluetooth 2.1 (EDR)
Power	Class 2
Distance	>20m (Industrial grade Bluetooth adapter)

4. AUTOID® 7P THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

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

5. AUTOID® 7P PERIPHERALS AND ACCESSORIES

Standard Accessories	Universal Adapterx1, USB Cablesx1, Touch Penx1, Hand Tetherx1, Hand Beltx1, Batteryx1
Optional Accessories	Single Battery Charger, Cradle, Vehicle charger, Multifunctional fabric bag, Four Slot Battery Charger, Bluetooth printer and card reader, 3600mAh large capacity battery, Ethernet cradle etc.