



# **AUTOID9 SERIES HAND-HELD TERMINAL PRODUCT SPECIFICATION V3.0**



Jiangsu SEUIC Technology Co., Ltd.



## 1. AUTOID9 PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex-A7 Quad core 1.2GHz
<b>Operating System</b>	Android 4.3 or Android 4.4
<b>RAM</b>	1GB
<b>ROM</b>	8GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Industrial Micro USB interface, support USB 2.0 high speed
<b>Keypad</b>	17 key / 22 keys (backlight)
<b>Display</b>	4 inch size industrial grade low temperature resistant, IPS screen, Capacitive, touchable, dual mode touch-with or without a thick glove / with or without wet hand
	800(H)×480(W) (WVGA)
<b>Power</b>	Removable 3.8 V 4000mAh li-ion rechargeable battery Built in 3.7V 60mAh li-ion backup battery
	Side interface : standard Micro USB charging interface, intelligent identification of PC and special charger
	Contact at the bottom of the tail plug interface : support for charging, usb 2.0 (with magnetic suction end plug cable or base)
<b>Battery Performance</b>	Continue to work : more than 12 hours (normally display on and scan once every 6 seconds and WLAN transmission) RTC time : more than 168 hours (no main battery) Dormancy standby : more than 550 hours (GPRS) online, offline (GPRS) is greater than 600 hours
<b>Notification</b>	Sound, vibration, LED indicator light
<b>Audio</b>	Built-in double speakers, built-in microphone, the 3.5 mm stereo headset interface
<b>Sensor (optional)</b>	Acceleration sensor, light sensor, electronic compass and gyroscope
<b>Dimension</b>	156(H)×70(W)×21mm(T) (27 mm at barcode engine)
<b>Weight (including standard battery)</b>	270g (Including battery depends on different configurations)
<b>Operating Temp</b>	-20°C to +50°C
<b>Storage Temp</b>	-40°C to + 60°C (Battery included)
	-40°C to + 70°C (Battery excluded)
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Sealing</b>	IP67
<b>Drop Specification</b>	Multiple 5 ft./1.5m drops to concrete across the operating temperature range



<b>Tumble Specification</b>	1,000 1.64 ft./0.5 m tumbles (2,000 drops)
<b>ESD</b>	±15kV Air discharge, ±8kV direct discharge

## 2. AUTOID9 DATA CAPTURE OPTIONS

Option 1	1D Advanced Laser Scan Engine Zebra SE955
<b>Scan Accuracy</b>	4mil
<b>Rotate</b>	±35° from vertical
<b>Pitch Angle</b>	±65° from normal
<b>Skew Tolerance</b>	±50° deviation from the normal Angle
<b>Ambient Light</b>	Sunlight : 10,000ft. Candles (107,640Lux)
	Artificial light : 450ft. Candles (4,844Lux)
<b>Scan Depth</b>	15.2cm (4mil), 64.1cm (55mil)
<b>Scan Frequency</b>	min.92 / sec, model : 104, max.116 times (bi-directional)
<b>Scan width</b>	47° / 35°
<b>Laser Safety Grade</b>	Class 1
<b>Code Support</b>	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.
Option 2	1D Advanced Laser Scan Engine Zebra SE965
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±40°
<b>Ambient Light</b>	Sunlight : 10,000ft. Candles (107,640Lux)
	Artificiallight : 450ft.candles (4,844Lux)
<b>Scan Depth</b>	25.4cm (10mil), 101.6cm (40mil)
<b>Scan Frequency</b>	104±12 / sec
<b>Scan Width</b>	47° / 35° / 10°
<b>Laser Safety Grade</b>	Class 2
<b>Code Support</b>	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.
Option 3	1D Advanced Laser Scan Engine
<b>Scan Accuracy</b>	5mil



<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±50°
<b>Ambient Light</b>	Sunlight : 10,000ft
<b>Scan Depth</b>	13.5cm (5mil), 91cm(55mil)
<b>Scan Frequency</b>	100±10 / sec
<b>Scan Width</b>	47°
<b>Laser Safety Grade</b>	Class 2
<b>Code Support</b>	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.
<b>Option 4</b>	<b>2D Advanced Imager Scan Engine Zebra SE4500</b>
<b>Sensor Resolution</b>	752(H)×480(V)pixel Wide VGA
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±60°
<b>VLD</b>	655nm±10nm
<b>LED</b>	635nm±5nm
<b>Ambient Light (Sunlight)</b>	9000 ft. Candles (96,900Lux)
<b>Optional sub model : SR</b>	Designed for low / medium density standard range of 1D / 2D barcode scanning and optimization
<b>Optional sub model : DL</b>	Designed specifically for the high density of 1D / 2D bar code and driver's license and other identity documents PDF barcode and optimization, access and entry and exit of identity management ideal choice, medical and health care applications in patient wristbands and unit dose, common in the electronic industry high density barcode
<b>Optional sub model : HD</b>	Designed for high density one and two dimensional barcode markers, and the optimization design and manufacturing of parts
<b>Option 5</b>	<b>2D Advanced Imager Scan Engine Honeywell N6603</b>
<b>Sensor Resolution</b>	844(H)×640(V)
<b>Rotate</b>	360° (HD, SR at 6.3", and ER at 7.3")
<b>Pitch Angle</b>	±45°
<b>Skew Tolerance</b>	±65°
<b>Scan Depth</b>	7cm (5mil), 36cm(20mil)



<b>Image Frame</b>	60fps
<b>Code Support</b>	Aztec Code, Codabar, Codablock F, Code 11, Code 128, Code 2 of 5, Code 39, Code 93, Data Matrix, EAN/JAN-13, EAN / JAN 8, EAN-UCC Composite Codes, EAN-UCC Emulation, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MaxiCode, MicroPDF417, MSI, PDF417, Postal Codes (Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet), Plessey Code, PosiCode, QR Code, RSS Expanded, RSS Limited, RSS-14, TCIF Linked Code 39, Telepen, Trioptic Code, UPC-A, UPC E
<b>Light source system</b>	White light, laser aiming
<b>Minimum printing contrast</b>	20%
<b>Option 6</b>	<b>1D Advanced Laser Scan Engine      Honeywell 4313</b>
<b>Scan Accuracy</b>	4mil
<b>Ambient Light</b>	Sunlight : 10,000ft. Candles (107,640Lux)
	Artificiallight : 450ft.candles (4,844Lux)
<b>Scan angle</b>	Standard 48°±2°, Optional 35°±2°
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±50°
<b>Skew Tolerance</b>	±65°
<b>Laser Safety Grade</b>	Class 2
<b>Scan Depth</b>	32.6cm (10mil), 80.6cm (40mil)
<b>Scan Frequency</b>	114±10/sec
<b>Minimum printing contrast</b>	20%
<b>Code Support</b>	UPC / EAN, POST, Code 128, Code 39, POST, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Option 7</b>	<b>GPS    Location information collection</b>
<b>Frequency</b>	L1 (1.575GHz)
<b>C/A Code</b>	32 channel
<b>Accuracy</b>	5-10meter (OPEN SKY)
<b>Option 8</b>	<b>Camera</b>
<b>Maximum Resolution</b>	2592*1944 (Taking pictures), 720P 15 / 30fps (camera)
<b>Photo Function</b>	Auto-focus



<b>Flashlight</b>	Support double flashlights
<b>Pixel</b>	5.0 mega-pixel
<b>BSI</b>	Support
<b>Option 9</b>	<b>RFID Read/write (HF,NFC)</b>
<b>Standards Support</b>	Support ISO15693, ISO14443A / B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50,S70and compatible with cards) .Support NFC protocol
<b>Operating Frequency</b>	HF frequency band 13.56 MHz
<b>Reading Distance</b>	Typical values greater than 3cm (ISO15693), Typical values greater than 2cm (ISO14443A/B) (Associated with tag)

### 3. **AUTOID9 WIRELESS DATA COMMUNICATIONS**

<b>Option 1</b>	<b>WLAN WIFI</b>
<b>Protocol</b>	IEEE 802.11a/b/g/n (2.4G / 5G dual-frequency WIFI)
<b>Frequency Range</b>	Depending on the country (region), 2.4 GHz is 2.4GHz-2.496 GHz, 5 GHz is 4.9GHz-5.85GHz
<b>Working Channel</b>	CH1~CH13, CH34~CH140, CH149~CH165
<b>Security</b>	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), AES Etc.
<b>Transmission Distance</b>	2.4G : more than 150 meters (Industrial AP, open area), 5G : more than 85 meters (Industrial AP, open area)
<b>Data Rate</b>	802.11a : 6, 9, 12, 18, 24, 36, 48, 54Mbps 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>	Built-in antenna
<b>Option 2</b>	<b>WWAN WCDMA</b>
<b>Frequency Band</b>	GSM : Quad band (850 / 900 / 1800 / 1900Mhz) WCDMA : Band1
<b>Communication Rate</b>	GPRS : DL / UL171.2kbps, EDGE : DL / UL384kbps DC-HSPA+ : DL 42 Mbps / UL 5.76 Mbps



Option 3	WWAN WCDMA+EVDO+TD-SCDMA
<b>Frequency Band</b>	GSM : Quad band (850 / 900 / 1800 / 1900Mhz) TD-SCDMA : Band34, Band39 WCDMA : Band1, Band5 CDMA 1x / EVDO : BC0
<b>Communication Rate</b>	GPRS : DL / UL171.2kbps, EDGE : DL / UL384kbps TD : DL 2.8Mbps / UL 2.2Mbps DC-HSPA+ : DL 42 Mbps / UL 5.76 Mbps CDMA1x : DL / UL 307.2kbps, EVDO : DL 3.1Mbps / UL 1.8Mbps
Option 4	WPAN Bluetooth
<b>Standard</b>	Bluetooth 4.0 (Dual mode, support BLE)
<b>Power</b>	Class 2
<b>Distance</b>	>20m (Industrial-grade Bluetooth adapter)

#### 4. AUTOID9 THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

<b>System Software</b>	Android 4.3
<b>System programming environment</b>	Android IDE (Eclipse)

#### 5. AUTOID9 PERIPHERALS AND ACCESSORIES

<b>Standard Accessories</b>	Universal adapterx1, Data communication linex1, Hand Tetherx1, Battery x1, Hand Beltx1
<b>Optional Accessories</b>	Single-Slot Battery Charger, 4-Slot Battery Charger, Magnetic tail plug wire, Single-Slot Charging Dock, 5-Slot Charging Dock, Touch pen

#### 6. AUTOID9 CERTIFICATIONS

FCC, ROHS, IP67, UN38.3
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