



# AUTOID<sup>®</sup>9U-9.0 PORTABLE TERMINAL

PRODUCT SPECIFICATION V1.1



JIANGSU SEUIC TECHNOLOGY CO., LTD

## 1. AUTOID®9U-9.0 PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex-A53 Octa core 1.2GHz
<b>Operating System</b>	Android 9.0
<b>RAM</b>	3GB
<b>ROM</b>	16GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Industrial Micro USB interface, support USB2.0 high speed; Support OTG; USB charging serial port
<b>Keyboard</b>	17-key/22-key crystal-button board
	LED(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 Supply</b>	Device battery: irremovable 4000mAh rated capacity Grip Pistol battery: Irremovable 6200mAh rated capacity, typical capacity as 6400mAh,
	Side interface: standard Micro USB Bottom interface: DC port, support 3A quick charge
<b>Battery Performance</b>	Continue to work: More than 16 hours (normally display on and scan once every 6 seconds and WLAN transmission) for the device battery. More than 3 hours (UHF 33dBm max output power) for the grip pistol battery.
<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</b>	Acceleration sensor, light sensor, electronic compass and gyroscope
<b>Dimension</b>	169(H)×90(W)×145(T)mm
<b>Weight(including standard battery)</b>	690g (depends on different configurations)
<b>Operating Temp</b>	-20℃ to +50℃
<b>Storage Temp</b>	-40 ℃ to + 60 ℃
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Sealing Grade</b>	IP65
<b>Drop Specification</b>	Multiple drops from 1.2m to Mable resistance
<b>Tumble Specification</b>	1,000 1.64 ft./0.5 m tumbles (2,000 drops) resistance
<b>ESD</b>	±15kV Air discharge, ±8kV direct discharge

## 2. AUTOID®9U-9.0 DATA COLLECTION OPTIONS

<b>Function 1</b>	<b>2D Image Scan Engine (Option 1)</b>
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<b>Sensor Resolution</b>	1280(H)×800(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±55°
<b>Laser safety grade</b>	Class II
<b>Scan Depth</b>	60fps
<b>Code Support</b>	1D: UPC/EAN, Code128, GS1-128, Code 39, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial2 of 5, Codabar, MSI, Code11 etc. 2D: PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec etc.
<b>Light source system</b>	Warm light with laser aiming
<b>Minimum printing contrast</b>	20%
<b>Function 2</b>	<b>2D Image Scan Engine (Option 2)</b>
<b>Sensor Resolution</b>	844(H)×640(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±45°
<b>Skew Tolerance</b>	±65°
<b>Laser Safety Grade</b>	Class II
<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 etc.
<b>Light source system</b>	White light, laser aiming
<b>Minimum printing contrast</b>	20%
<b>Function 3</b>	<b>GPS Location information collection</b>

<b>Positioning system</b>	GPS, Beidou, GLONASS(Three in one)
<b>Frequency</b>	GPS: L1(1.575GHz); Beidou: B1(1.561GHz); GLONASS: L1(1.602GHz)
<b>Maximum number of channels</b>	31channel
<b>Sensitivity</b>	-130dB(SNR value:40dBHz)
<b>Accuracy</b>	5-10meter (OPEN SKY)
<b>Function 4</b>	<b>Camera</b>
<b>Maximum Resolution</b>	3264*2448(Taking pictures), 720P 30fps(Video camera)
<b>Photo Function</b>	Auto-focus
<b>Flashlight</b>	Support double flashlights
<b>Pixel</b>	8.0 mega pixel
<b>Function 5</b>	<b>RFID Read/Write(UHF)</b>
<b>Read-write tag</b>	Support ISO-18000-6C/EPCC1G2
<b>Antenna Parameter</b>	4dBi circular polarization, default as 920-925MHz
<b>Frequency</b>	840-960MHz (may be slightly different depending on the country or region), default 920-925MHz
<b>Operation Mode</b>	Work with frequency hopping spread spectrum (FHSS) or fixed frequency
<b>Output power</b>	5~33dBm
<b>Reading distance</b>	>8m @impinj H47 (depending on the tag and environment)
<b>Writing distance</b>	0-300cm (depending on the tag and environment)
<b>Multi-tab reading</b>	500 pieces tags decoding within 20 seconds (actual speed subjects to the influence of surroundings)
<b>Reading rate</b>	12ms/word (in average with every word as 32bits)
<b>Writing rate</b>	60ms/word (in average with every word as 32bits)
<b>Power consumption</b>	less than 8W (average)
<b>Function 6</b>	<b>RFID Read/Write(HF)</b>
<b>Read-write tag</b>	Support ISO15693, ISO14443A/B(without encryption protocol), ISO14443A encrypted tags(Mifare one S50, S70 and the compatible cards), support NFC protocol and Identification Cards.
<b>Frequency</b>	HF Frequency 13.56MHz

<b>Reading distance</b>	Typical value >4cm for ISO15693, typical value >2cm for ISO14443A, and typical value >1cm for ISO14443B (depending on the tags)
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### 3. AUTOID®9U-9.0 WIRELESS DATA COMMUNICATIONS

Function 1	WLAN WIFI
<b>Protocol</b>	IEEE 802.11a/b/g/n/ac (2.4G/5G dual-band WIFI)
<b>Frequency Range</b>	Depending on the country (region),2.4GHz is 2.4GHz-2.496GHz; 5GHz is 5.150GHz-5.85GHz
<b>Channel</b>	CH1~CH14, CH34-CH140, CH149~CH165
<b>Security</b>	OPEN,WEP,WPA/WPA2,TLS,TTLS(MS-CHAP), TTLS(MS-CHAP v2), TTLS (CHAP), TTLSMD5, TTLS-PAP, PEAP-TLS, PEAP(MS-CHAP v2) etc.
<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) 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) 802.11n:13.5,27,40.5,54,81,108,121.5,135Mbps(40MHz,Long GI,800ns) 802.11n:15,30,45,60,90,120,135,150Mbps(40MHz,short GI,400ns) 802.11ac:6.5,13,19.5,26,39,52,58.5,65,78Mbps(20Mhz,Long GI,800ns) 802.11ac:7.2,14.4,21.7,28.9,43.3,57.8,65,72.2,86.7(20MHz,short GI,400ns) 802.11ac:13.5,27,40.5,54,81,108,121.5,135,162,180Mbps(40Mhz,Long GI,800ns) 802.11ac:15,30,45,60,90,120,135,150,180,200Mbps(40MHz,short GI,400ns) 802.11ac:29.3,58.5,87.8,117,175.5,234,263.3,292.5,351,390Mbps(80Mhz ,Long GI,800ns) 802.11ac:32.5,65,97.5,130,195,260,292.5,325,390,433.3Mbps (80MHz,short GI,400ns)
<b>Antenna</b>	Internal antenna
Function 2	WWAN
<b>Network</b>	GSM: Qual Band(850/900/1800/1900Mhz) TD-SCDMA: Band34,Band39 WCDMA: Band1, Band2, Band5, Band8 CDMA 1x /EVDO : BC0\BC1 TDD-LTE: Band38, Band39, Band40, Band41 FDD-LTE: Band1, Band3, Band5, Band7, Band8
<b>Communication Rate</b>	GPRS: DL / UL171.2kbps. EDGE: DL / UL384 kbps

	TD: DL 4.2 Mbps/UL 2.2 Mbps DC-HSPA+: DL 42Mbps/UL 5.76 Mbps CDMA1x: DL 153.6kbps/UL 153.6kbps. EVDO: DL 3.1 Mbps/UL 1.8 Mbps TDD-LTE: DL 117 Mbps/UL 30 Mbps (CAT4) FDD-LTE: DL 150 Mbps/UL 50 Mbps (CAT4)
<b>Function 3</b>	<b>WPAN Bluetooth</b>
<b>Standard</b>	Bluetooth 4.2(support BLE)
<b>Power</b>	Class II

#### 4. AUTOID®9U-9.0 THE THIRD PARTY APPLICATION SUPPORT

<b>System Software</b>	Android 9.0
<b>System programming environment</b>	Eclipse, Android Studio

#### 5. AUTOID®9U-9.0 PERRIPHERALS AND ACCESSORIES

<b>Standard Accessories</b>	5V 5A adapterx1, data cablex1
<b>Optional Accessories</b>	OTG cable, Hand strap