



AUTOID9 SERIES HAND-HELD TERMINAL

PRODUCT SPECIFICATION V0.1



JIANGSU SEUIC TECHNOLOGY CO., LTD

1. AUTOID9 PERFORMANCE CHARACTERISTICS

CPU	Cortex™-A53 Octa-core 1.8GHz
Operating System	Android 9.0
RAM	2GB(option of 3GB)
ROM	16GB
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Interface/Communication	Industrial Micro USB interface supports USB2.0 High Speed, supports OTG, USB supports serial port.
Keypad	17keys/22 crystal keys LED(buttons with backlight)
Display	4.0 inch size industrial grade low temperature resistant, Capacitive, touchable, dual mode touch-with or without a thick glove / with or without wet hand 800(H)×480(W) (WVGA)
Power	Detachable 3.8V 4000mAh rechargeable Li-ion battery, (Built 3.7V 60mAh in li-ion backup battery and voltmeter) Side interface: Standard Micro USB, support quick charge, intelligent identification of PC and special charger; Bottom flap charging interface: Support quick charge, USB data transmission intelligent identification of PC and special charger
Notification	Sound, Vibrator, LED indicator
Audio	Built-in dual loudspeaker 8Ω/0.8W*2 or built-in single loudspeaker4Ω/2W, built-in microphone, 3.5mm stereo headset interface.
Sensor	Acceleration sensor, Electronic compass, Optical sensor and gyroscope
Dimension	156(H)×70(W)×22(T)mm , (it's 27mm for the scanner part)
Weight(including standard battery)	270g (battery included, varies by different configurations)
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(option of IP67)
Drop Specification	Multiple 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. AUTOID9 DATA CAPTURE OPTIONS

Option	1D Laser Scan Engine
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 Frequency	100±10/sec
Scan Width	47°
Laser safety grade	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.
Option	2D Image Scan Engine
Sensor Resolution	844(H)×640(V)
Rotate	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Laser safety grade	Class II
Image frame rate	60fps
Code Support	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.
Light source system	White light, laser aiming
Minimum printing contrast	20%
Option	GPS
Positioning system	GPS, Beidou, GLONASS(Three in one)
Frequency	GPS: L1(1.575GHz); Beidou: B1(1.561GHz); GLONASS:L1(1.602GHZ)
Maximum number of channels	31channels
Sensitivity	-130dB(SNR value as 40dBHz)
Accuracy	5-10meter(OPEN SKY)
Option	Camera
Maximum Resolution	3264*2448(taking photo), 720P 30fps (making video)
Photo Function	Auto-focus
Flashlight	Support dual flashlights
Pixel	8 mega
Option	RFID Read/write(HF)
Standards Support	Support ISO15693,ISO14443A/B(without encryption protocol), ISO14443A tag with encryption protocol(Mifare one S50,S70 and its compatible cards); Support NFC protocol

Operating Frequency	HF frequency band 13.56MHz
Reading Range	Typical values bigger than 6cm for ISO15693, Typical values bigger than 4cm for ISO14443A , and Typical values bigger than 1cm for ISO14443B varies by different tags.
Resolution	508DPI

3. AUTOID9 WIRELESS DATA COMMUNICATIONS

Option 1	WLAN WIFI
Protocol	IEEE 802.11a/b/g/n/ac(2.4G/5G dual-frequency WIFI)
Frequency Range	Depends on different countries (regions), 2.4GHz: 2.4GHz-2.496GHz; 5GHz: 5.15GHz-5.85GHz
Working Channel	CH1~CH14, CH34-CH140, CH149~CH165
Security	OPEN,WEP,WPAWPA2,TLS,TTLS(MS-CHAP), TTLS(MS-CHAP v2), TTLS (CHAP), TTLSMD5, TTLS-PAP, PEAP-TLS, PEAP(MS-CHAP v2)etc.
Data Rate	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:13.5,27,40.5,5481,108,121.5,135,162,180Mbps(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)
Antenna	Built-in antenna
Option 2	WWAN WCDMA (2G and 3G)
Frequency Band	GSM: Qual Band(850/900/1800/1900Mhz) TD-SCDMA: Band34,Band39 WCDMA: Band1,Band2,Band5,Band8 CDMA 1x /EVDO : BC0\BC1
Communication Rate	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
Option 3	WPAN Bluetooth
Standard	Bluetooth 4.2(Support BLE)
Power	Class II

4. AUTOID9 THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

System Software	Android 9.0
System programming environment	Eclipse, Android Studio

5. AUTOID9 PERIPHERALS AND ACCESSORIES

Standard Accessories	Universal Adapter×1, USB Cable×1, Hand Belt×1, battery×1, Hand Tether×1
Optional Accessories	Single Slot Battery Charger, Four-slot Battery Charger, Single Slot Charging Dock, Single Slot Charging Dock (support ethernet), Five-slot Charging Dock, Five-slot Charging Dock(support ethernet), Grip handle, Vehicle charger rack, Vehicle charger, OTG data cable, Multifunctional bag, Grip handle bag, Touch pen, Screen protector, PDA protective casing