



AUTOID9U HAND-HELD TERMINAL **PRODUCT Specification V1.1**



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1. AUTOID9U Performance CHARACTERISTICS

CPU	Cortex-A53 Quad core 1.2GHz
Operating System	Android 5.1
RAM	2GB LPDDR3
ROM	16GB
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Interface/Communication	Industrial Micro USB interface, support USB2.0 high speed; Support OTG; USB supports serial port
Keyboard	17 key/22 key crystal button
	LED(backlight)
Hand shank button	Support Scan and UHF (default) function , shortcut key states can be controlled by switch
Display	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)
Battery	Irremovable 3.8 V 4000mAh and 3.7V 5200mAh li-ion rechargeable battery
Battery Performance	Side interface: standard Micro USB, support quick charge,intelligent identification of PC and special charger Bottom interface: DC port, support 2A quick charge
	Continue to work: more than 16 hours (normally display on and scan once every 6 seconds and WLAN transmission)
	Dormancy standby: more than 700 hours (GPRS) online, offline (GPRS) is greater than 800 hours
Notification	Sound, vibration, LED indicator light
Audio	Built-in double speakers, built-in microphone, the 3.5 mm stereo headset interface
Sensor	Acceleration sensor, light sensor, electronic compass and gyroscope
Dimension	156(H)×70(W)×145(T)mm
Weight(including standard battery)	560g (depends on different configurations)
Operating Temp	-20℃ to +50℃
Storage Temp	-40 ℃ to + 60 ℃
Humidity	5% to 95% RH non-condensing
Sealing	IP65
Drop Specification	1.2 m (concrete floor)
Tumble Specification	1,000 1.64 ft./0.5 m tumbles (2,000 drops)
ESD	±15kV Air discharge, ±8kV direct discharge

2. AUTOID9U DATA CAPTURE OPTIONS

Option 1	1D Advanced Laser Scan Engine
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Scan Accuracy	5mil
Rotate	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificiallight: 450ft. Candles(4,844Lux)
Scan Depth of Field	17.78cm(5mil), 66.04cm(15mil)
Scan Frequency	104±12/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.
Option 2	1D Laser Scan Engine
Scan Accuracy	5mil
Rotate	±35°
Pitch Angle	±65°
Skew Tolerance	±40°
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificiallight: 450ft. Candles(4,844Lux)
Scan Depth of Field	25.4cm(10mil), 101.6cm(40mil)
Scan Frequency	104±12/sec
Scan Width	47°/35°/10°
Laser Safety Grade	Class 2
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 3	1D Advanced Laser Scan Engine
Scan Accuracy	5mil
Rotate	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificiallight: 450ft. Candles(4,844Lux)
Scan Frequency	100±10/sec
Scan Width	47°
Laser Safety Grade	Class 2
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 4	2D Advanced Imager Scan Engine
Sensor Resolution	844(H)×640(V)
Rotate	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Laser Safety Grade	Class 2



Image Frame	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, R TCIF Linked Code 39, Telepen, Trioptic Code, UPC-A, UPC-E Etc.
Light source system	White light, laser aiming
Minimum printing contrast	20%
Option 5	GPS Location information collection
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	31channel
Sensitivity	-130dB(SNR value:42dBHz)
Accuracy	5-10meter (OPEN SKY)
Option 6	Camera
Maximum Resolution	3264*2448 (Taking pictures) , 720P 30fps (camera)
Photo Function	Auto-focus
Flashlight	Support double flashlights
Pixel	8.0 mega pixel
Option 7	RFID Read/Write(UHF+HF)
	HF
Standards Support	ISO14443A/B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50,S70 and compatible with cards); Support NFC protocol ISO15693
Operating Frequency	HF frequency 13.56MHz
Reading Distance	0~6cm (ISO15693), 0-3cm(ISO14443A/B), 0-1cm(ISO14443B)
	UHF
Read-write tag	ISO-18000-6C、EPCC1G2
Frequency	840-960MHz (may be slightly different depending on the country or region), default 920-925MHz
operation mode	Work with broad spectrum hopping (FHSS) or fixed frequency
Output power	5~30dBm (depending on the country or region)
Reading distance	0-500cm (depending on the tag and environment)
Writing distance	0-300cm (depending on the tag and environment)
Multi-tab reading	More than 100 tags at the same time
Reading rate	12ms/word (average)
Writing rate	60ms/word (average)
Power consumption	less than 4W (average)



3. AUTOID9U wireless data communicationS

Option 1	WIFI
protocol	IEEE 802.11a/b/g/n (2.4G/5G dual-band WIFI)
Frequency Range	Depending on the country (region),2.4GHz is 2.4GHz-2.496GHz; 5GHz is 5.15GHz-5.85GHz
Channel	CH1~CH13, CH34-CH140, CH149~CH165
Security	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.
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)
Antenna	Internal antenna
Option 2	WWAN fullset 7M18B
Network	GSM: Qual Band(850/900/1800/1900Mhz) TD-SCDMA: Band34,Band39 WCDMA: Band1, Band2, Band5, Band8 CDMA 1x /EVDO : BC0 TDD-LTE: Band38, Band39, Band40, Band41 FDD-LTE: Band1, Band3, Band7
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 TDD-LTE: DL 117 Mbps / UL 30 Mbps (CAT4) FDD-LTE: DL 150 Mbps / UL 50 Mbps (CAT4)
Option 3	Bluetooth
Standard	Bluetooth 4.0 (support BLE)
Power	Class 2

4. AUTOID9U THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

System	Android 5.1
Compiling environment	Eclipse, Android Studio

AUTOID9 external equipment and accessories

Standard Accessories	5V 5A adapter×1、 data cable×1
Optional Accessories	OTG cable、 hand strap

