

STAA9U-9.0 PORTABLE TERMINAL

PRODUCT SPECIFICATION V1.1





1. AUTOID®9U-9.0 PERFORMANCE CHARACTERISTICS

CPU	Cortex-A53 Octa core 1.2GHz
Operating System	Android 9.0
RAM	3GB
ROM	16GB
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Interface/Communication	Industrial Micro USB interface, support USB2.0 high speed; Support OTG; USB charging serial port
Keyboard	17-key/22-key crystal-button board
	LED(backlight)
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)
Power Supply	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
Battery Performance	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.
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	169(H)×90(W)×145(T)mm
Weight(including standard battery)	690g (depends on different configurations)
Operating Temp	-20℃ to +50℃
Storage Temp	-40 ℃ to + 60 ℃
Humidity	5% to 95% RH non-condensing
Sealing Grade	IP65
Drop Specification	Multiple drops from 1.2m to Mable resistance
Tumble Specification	1,000 1.64 ft./0.5 m tumbles (2,000 drops) resistance
ESD	±15kV Air discharge, ±8kV direct discharge

2. AUTOID®9U-9.0 DATA COLLECTION OPTIONS

Function 1	2D Image Scan Engine (Option 1)
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Sensor Resolution	1280(H)×800(V)
Rotate	360°
Pitch Angle	±60°
Skew Tolerance	±55°
Laser safety grade	Class II
Scan Depth	60fps
Code Support	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.
Light source system	Warm light with laser aiming
Minimum printing contrast	20%
Function 2	2D Image Scan Engine (Option 2)
Sensor Resolution	844(H)×640(V)
Rotate	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Laser Safety Grade	Class II
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, 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%
Function 3	GPS Location information collection



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



Reading distance	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
Protocol	IEEE 802.11a/b/g/n/ac (2.4G/5G dual-band WIFI)
Frequency Range	Depending on the country (region), 2.4GHz is 2.4GHz-2.496GHz; 5GHz is 5.150GHz-5.85GHz
Channel	CH1~CH14, CH34-CH140, CH149~CH165
Security	OPEN, WEP, WPA/WPA2, 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: 13.5,27,40.5,54,81,108,121.5,135,162,180Mbps(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)
Antenna	Internal antenna
Function 2	WWAN
Network	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
Communication Rate	GPRS: DL / UL 171.2kbps. EDGE: DL / UL 384 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)
Function 3	WPAN Bluetooth
Standard	Bluetooth 4.2(support BLE)
Power	Class II

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

System Software	Android 9.0
System programming environment	Eclipse, Android Studio

5. AUTOID®9U-9.0 PERRIPHERALS AND ACCESSORIES

Standard Accessories	5V 5A adapter×1, data cable×1
Optional Accessories	OTG cable, Hand strap

