



# AUTOID Q9 SERIES PORTABLE TERMINAL

## PRODUCT SPECIFICATION V1.0



**SEUIC Technologies Co., Ltd.**

## 1. AUTOID Q9 PERFORMANCE, PHYSICS AND SERVICE ENVIRONMENT

### PARAMETER

<b>CPU</b>	MTK Octa core 8*2.0GHz
<b>Operating System</b>	Android 10.0
<b>Memory</b>	3+32GB or 4+64GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Support Type-C, support OTG
<b>Keypad</b>	27 keys
	LED (buttons with backlight)
<b>Display</b>	4.0 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>	Optional detachable 3.85V rechargeable 5200mAh Li-ion battery (built-in backup li-ion battery of 60mAh)
	Side Type-C interface, support quick charge, intelligent identification of PC and charger
	End interface: support 5V/2V charging
<b>Notification</b>	Sound, Vibrator, LED indicator
<b>Audio</b>	Built-in dual loudspeaker, built-in dual microphone, Type-C support earphone
<b>Sensor</b>	Optical sensor, Proximity sensor, Gravity sensor, Gyroscope, E-compass
<b>Dimension</b>	160(H)×66.3(W)×16.2(T)mm, (17.1mm tall with battery cover)
<b>Weight(including standard battery)</b>	250g (battery included, varies by different configurations)
<b>Operating Temp</b>	-20°C to + 50°C
<b>Storage Temp</b>	-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 5.8 ft./1.8m drops to marble across the operating temperature range
<b>Tumble Specification</b>	1000 rounds of tumble from 0.5m, equals to 2000 impacts
<b>ESD</b>	±15kV Air discharge, ±8kV direct discharge
<b>VoLTE</b>	Support VoLTE function

## 2. AUTOID Q9 DATA CAPTURE OPTIONS PARAMETER

Function 1	2D Image Scan Engine (option1-X3PSR)
<b>Sensor Resolution</b>	1280(H)×1080(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±55°
<b>Laser Safety Grade</b>	Class II
<b>Image Frame Rate</b>	60fps

<b>Scan Depth</b>	Code128: 7cm(3mil), 73cm(20mil)
<b>Code Support</b>	UPC/EAN, 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, PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec etc
<b>Light Source System</b>	Warm light, corss-shape laser aiming
<b>Minimum Printing Contrast</b>	20%
<b>Function 2</b>	<b>2D Image Scan Engine (option2-X3PHD)</b>
<b>Sensor Resolution</b>	1080(H)×1280(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±55°
<b>Laser Safety Grade</b>	Class II
<b>Image Frame Rate</b>	60fps
<b>Scan Depth</b>	Code128: 9cm(3mil), 38cm(20mil)
<b>Code Support</b>	UPC/EAN, 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 PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, etc
<b>Light Source System</b>	Warm light, cross-shape laser aiming
<b>Minimum Printing Contrast</b>	20%
<b>Function 3</b>	<b>2D Image Scan Engine (option3-X3PMR)</b>
<b>Sensor Resolution</b>	1080(H)×1280(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±55°
<b>Laser Safety Grade</b>	Class II
<b>Image Frame Rate</b>	60fps
<b>Scan Depth</b>	Code128: 10cm(5mil), 84cm(20mil)
<b>Code Support</b>	UPC/EAN, 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 PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, etc
<b>Light Source System</b>	Warm light, cross-shape laser aiming
<b>Minimum Printing Contrast</b>	20%
<b>Function 4</b>	<b>GPS</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>	31channels
<b>Sensitivity</b>	-130dB (SNR value as 40dBHz)
<b>Accuracy</b>	5-10meter (OPEN SKY)
<b>Function 5</b>	<b>Camera</b>
<b>Front Camera</b>	
<b>Maximum Resolution</b>	2592*1944 (taking photo)
<b>Photo Function</b>	Fixed focus
<b>Pixel</b>	5 mega
<b>Rear Camera</b>	
<b>Maximum Resolution</b>	4224*3136 (taking photo), 1080P@30fps (making video)
<b>Photo Function</b>	Auto-foucs
<b>Flashlight</b>	Support flashlight, can be used for lighting
<b>Pixel</b>	13 mega
<b>Function 6</b>	<b>RFID Read/Write (HF)</b>
<b>Standards Support</b>	Support ISO15693, ISO14443A/B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50, S70 and its compatible cards); Support NFC protocol
<b>Operating Frequency</b>	HF frequency band 13.56MHz
<b>Reading Range</b>	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

### 3. AUTOID Q9 WIRELESS DATA COMMUNICATIONS PARAMETER

<b>Function 1</b>	<b>WLAN WIFI</b>
<b>Protocol</b>	IEEE 802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v/w (2.4G/5G dual-frequency WIFI)
<b>Frequency Range</b>	Depends on different countries(regions), 2.4GHz: 2.412GHz~2.472GHz; 5GHz: 5.17GHz~5.825GHz
<b>Working Channel</b>	CH1~CH13, CH34~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>Antenna</b>	Built-in antenna
<b>Function 2</b>	<b>WWAN WCDMA</b>
<b>Frequency Band</b>	European Asian area: GSM: Quad Band (900, 1800 Mhz) TD-SCDMA: Band34, Band39 WCDMA: Band1, Band5, Band8 CDMA 1x /EVDO: BC0 TDD-LTE: Band34, Band38, Band39, Band40, Band41

	FDD-LTE: Band1, Band3, Band5, Band7, Band8, Band20
<b>Function 3</b>	<b>WPAN Bluetooth</b>
<b>Standard</b>	Bluetooth 5.0 (Support BLE)
<b>Power</b>	Class II

#### 4. AUTOID Q9 THIRD-PARTY APPLICATION DEVELOPMENT SUPPORT

<b>System Software</b>	Android 10.0
<b>System Programming Environment</b>	Android Studio

#### 5. AUTOID Q9 PERIPHERAL DEVICES AND ACCESSORIES

<b>Standard Accessories</b>	Universal Adapter×1, USB Cable×1, Battery×1, Hand Belt×1
<b>Optional Accessories</b>	Four-Slot Battery Charger, Single Slot Charging Cradle Include Battery, Four-Slot Charging Cradle, Pistol Grip, Touch Pen, Tempered Glass Screen Protector, Device Protect Cover