



**Expda1701**

**HAND-HELD TERMINAL**  
**PRODUCT SPECIFICATION V1.1**



**SEUIC Technologies Co., Ltd.**

## 1. EXPDA1701 PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex™-A53 Octa-core 1.8GHz
<b>Operating System</b>	Android 9.0
<b>RAM</b>	3GB
<b>ROM</b>	32GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Industrial Micro USB interface supports USB2.0 High Speed, supports OTG, USB supports serial port
<b>Keypad</b>	17keys/22 crystal keys
	LED(buttons with backlight)
<b>Display</b>	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)
<b>Power</b>	Detachable 3.8V 4000mAh rechargeable Li-ion battery, (Internal battery charge meter, Battery explosion-proof)
	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
<b>Notification</b>	Sound, Vibrator, LED indicator
<b>Audio</b>	Built-in dual loudspeaker 8Ω/0.8W*2 or built-in single loudspeaker4Ω/2W, built-in microphone, 3.5mm stereo headset interface
<b>Sensor</b>	Acceleration sensor, Electronic compass, Optical sensor and gyroscope
<b>Dimension</b>	156(H)×70(W)×22(T)mm, (it's 27mm for the scanner part)
<b>Weight(Including standard battery)</b>	270g (battery included, varies by different configurations)
<b>Operating Temp</b>	-20°C to +50°C
<b>Storage Temp</b>	-40°C to + 60°C (battery included)
	-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 1.5m drops to concrete across the operating temperature range
<b>Tumble Specification</b>	1,000 1.64 ft./0.5 m tumbles (2,000 impacts)
<b>ESD</b>	±15kV Air discharge,±8kV direct discharge
<b>Explosion Protection Class</b>	Ex ib IIC T4 Gb

## 2. Expda1701 DATA CAPTURE OPTIONS

Function 1	2D Image Scan Engine
<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>Image Frame Rate</b>	60fps
<b>Scan Depth</b>	Code128: 10cm(5mil), 80cm(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>	White light, Red cross-shape laser aiming
<b>Minimum Printing Contrast</b>	20%
<b>Function 2</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>	-130dBm (SNR value as 40dBHz)
<b>Accuracy</b>	5-10meter (OPEN SKY)
<b>Function 3</b>	<b>Camera</b>
<b>Maximum Resolution</b>	3264*2448(taking photo), 1080P 60fps(making video)
<b>Photo Function</b>	Auto-focus
<b>Flashlight</b>	Support dual flashlights
<b>Pixel</b>	13 mega
<b>Function 4</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
<b>Resolution</b>	508DPI

### 3. Expda1701 WIRELESS DATA COMMUNICATIONS

<b>Function 1</b>	<b>WLAN WIFI</b>
<b>Protocol</b>	IEEE 802.11a/b/g/n/ac(2.4G/5G dual-frequency WIFI)
<b>Frequency Range</b>	Depends on different countries (regions), 2.4GHz: 2.4GHz~2.496GHz; 5GHz: 5.15GHz~5.85GHz

<b>Working 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>	Built-in antenna
<b>Function 2</b>	<b>WWAN WCDMA (All network: 7 modes 22 frequency)</b>
<b>Frequency Band</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, Band2, 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. NEW AUTOID®9 THIRD PARTY APP DEVELOPMENT SUPPORT

<b>System Software</b>	Android 9.0
<b>System Programming Environment</b>	Eclipse, Android Studio

#### 5. NEW AUTOID®9 PERIPHERALS AND ACCESSORIES

<b>Standard Accessories</b>	Universal Adapter×1, USB Cable×1, Hand Belt×1, Hand Tether×1
<b>Optional Accessories</b>	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