



AID500 UHF Mobile Computer

ACC Systems AID500 UHF mobile computer provides high performance UHF RFID reading/writing capability. It is designed to support EPC C1 GEN2 / ISO18000-6C protocol, and equipped with a best-of-class R2000 Impinj UHF module that covers frequency ranges for most areas. This versatile device can also be configured with high performance 1D/2D barcode scanning and a variety of wireless connections such as Bluetooth, 3G, and WiFi. With its many features, enterprises can deploy this single device in many various areas, including asset management, retail, warehouse management, fleet management and etc.



Most Powerful Application Performance

The AID500 UHF is based on the Android 4.4.2 O.S. and features the fast and powerful quad core 1.3GHz processor, together with 1GB of RAM, 4GB built-in flash storage, plus SD card slot that can add up to 32GB of memory.



Extensive Data Capture Functions

The AID500 UHF can also be integrated with best-in-class Motorola 1D/2D barcode scanning engine, sensitive fingerprint snap-on and GPS. It allows users to choose data collection options as per industry need.



Powerful Battery

With the embedded 3200mAh main battery and the 5200mAh pistol battery, the AID500 UHF enables non-stop operation throughout the full work day.



Superior UHF RFID Reading Capability

The AID500 UHF provides new levels of UHF RFID reading performance. It can be configured with the best-in-class R2000 UHF module or cost-effective UHF module, together with two kinds of high performance antenna options.



Fast Wireless Connectivity

Whether indoors or outdoors, the AID500 UHF provides fast and stable network connectivity with a variety of wireless connections including WCDMA, WiFi, Bluetooth and GPRS.



Highly Customizable

From a single function device to a fully featured enterprise mobile computer, this device delivers the best possible flexibility and diversity to satisfy a whole variety of application needs.



1D Barcode



2D Barcode



RFID



Fingerprint



3G



WiFi



Bluetooth



GPS

Physical Characteristics

Dimensions	192mm x 87mm x 151mm / 7.56 x 3.43 x 5.94in
Weight	456g/ 16.08oz
Display	4" WVGA (480*800), 16.7M colors
Touch Panel	Rugged capacitive touch panel
Power	Main battery: Li-ion, 3200mAh Pistol battery: Li-ion, 5200mAh
Expansion Slot	1 PSAM, 1 SIM, 1 MicroSD(TF) slot
Interfaces	USB Micro-B
Audio	0.5W speaker, build-in microphone
Keypad	4 TP touch keys, Optional numeric or Qwerty
Sensors	Light Sensor, Proximity Sensor

Performance

CPU	Cortex-A7 1.3GHz quad-core
RAM	1GB
ROM	4GB
Expansion	Supports up to 32GB Micro SD card

Developing Environment

Operating System	Android 4.4.2
SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	14°F to 122°F / -10°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.2m drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.64ft falls at room temperature
Sealing	IP64

Communication

WLAN	IEEE802.11 b/g/n
	GSM/GPRS/EDGE Quad Band
WWAN	(850/900/1800/1900MHz)
	WCDMA (850/1900/2100MHz)
Bluetooth	Bluetooth 4.0
GPS	GPS, AGPS

Barcode Scanning (Optional)

1D Linear Scanner	
1D Laser / CCD	Symbol SE965/EM-1350
Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner	
2D CMOS Laser Scanner	Symbol SE4750
Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

RFID

UHF	
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization (1.8dBi) Circular polarization (2.5dBi)
Power	1W (+10dBm to +30dBm)
R/W ranges	Option1 (R2000), up to 4.5m Option2, up to 2m (Ranges depend on tags and environment)

Biometric (Optional)

Functions	Enrollment, compare, deletion etc.
Sensor	TCS255
Sensor Type	Capacitive Sensor
Resolution	508DPI
Memory	1,000 PCS fingerprints

PSAM (Optional)

Slots	1 PSAM slot
Protocol	ISO7816

Accessories



AC Adapter



Snap-on



USB cable



Cradle



Pistol



Fingerprint Snap-on (Optional)



Carrying Case (optional)

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