RFID AT YOUR SERVICE
Open up a new business with the help of **RFID** experts.

α811 All in one RFID Reader

DETAIL

CHARACTERISTIC

- Overwhelming RFID reading performance, you've ever seen
- Reading a tag up to 32M away (depending on tag type)
- Unique and sophisticated design
- Selectable functions - 2D barcode, NFC, GPS and other

- Reading 160 tags in a second
- Long-lasting battery capacity
- Free SDK (Software Development Kit)

ITEM DESCRIPTION

α811 is an all-in-one UHF RFID reader based on the Android operating system. Users can collect any data by using NFC, 2D barcode engine, and Camera functions. And do some work with the data on the device and send it to the server or other device by using WIFI, Bluetooth, GPS, 3G functions. α811 can read 160 tags on an average and tags from a distance of approximately 12M with a normal size tag (8x3cm). with special tags with high performance, we could get 32M of reading distance.

UHF, Barcodes, NFC, Camera, WIFI, Bluetooth, GPS and   3G function combined with a lightweight and distinctive design of a811   provides you convenience for using. The standard battery, 6800mAh, allows UHF   RFID reading lasting long and is swappable if new battery power needs. Slim and sophisticated design mobile RFID reader you've ever seen before! A powerful RFID module (R2000) with a large antenna brings you up to 12M reading distance for normal size tags. With a specific good tag, you can get up to 32M of reading distance.

Also able to read 150~160 tags per second. A811 provides you any type of identifying technologies, UHF, 2D, NFC in one device. Moreover, with WIFI, Bluetooth in default, you can select optional functions you want, Camera, GPS, 3G. All kinds of data capturing functions are in your hand! It comes in Black or White.

SPECIFICATION

Performance Characteristics	Processor	Octa core 2.0GHz	**Physical Characteristics**	Audio	Phone Receiver, Speaker, Ear Jack, Microphone
	Operating System	Android 6.0.1		Standard I/O Port	1Port USB OTG
	Memory	LPDDR3 2GB RAM, eMMC 32GB Internal		Expansion Slot	2Port USB Host, 1Port UART(RS-232+ Out Support5V)/ 1Port USB Client
	Display	IPS 4' WVGA TFT-LCD PANEL		Notification	Vibrator and LED, Speaker
	Operating Temp.	-20°C~+70°C(-68°F~+158°F)		Weight	525g(Full function with battery, it may less with other configurations) 1.15lb 412g(Full function without battery, it may less with other configurations) 0.91lb
	Storage Temp.	-30°C~+80°C (-86°F~+176°F)			
	Humidity	95% non-condensing		Dimensions (LxWxH)	133mm x 216mm x 23mm (5.23 x 8.5 x 0.9 in)
	Drop test	1.5M(4.92ft) Drop to Concrete	**UHF Reader/ Writer**	Frequency	860MHz - 960MHz
	Dust & Water Proof	IP65		Reading Range	0M - 35M (Depending on Tag & Environment)
Power Supply	Main Battery	6800 mAh(Lithium ion)		Reading Speed	160 tags/ Sec. (Unique ID) 900 tags / Sec. (Repeat ID)
	Power Adapter	5V 2A Micro USB Adaptor		RF output	1W 5dBm~30dBm (step 1dB Adjustable by software)
	Serial	Serial to Mobile device		Protocol	Gen2, ISO/IEC 18000-6C
Network Characteristics	WLAN	IEEE 802.11 ac /a/b/g/n		Special function	Anti-Collision
	Bluetooth	Bluetooth V4.2+EDR	**Data Capture Device**	Special function	SE-4710 2D Imager Barcode Scanner
	Radio	GSM, GPRS, EDGE, UMTS, HSDPA+		Camera	8Mega Pixel Auto Focus with Flash
	GPS	Internal Antenna	**HF Reader/ Writer**	Applicable RFID Tag	ISO 15693, MIFARE, ISO14443 A/B
-	-	-		Reading Range	Based on Tag : 0 - 10cm(Internal)
Accessories Cradle	Ethernet	• Single Chip Hi-Speed USB 2.0 to 10/100 Ethernet Controller • Integrated 10/100 Ethernet MAC with Full-Duplex Support • Integrated 10/100 Ethernet PHY with HP Auto-MDIX support • Integrated USB 2.0 Hi-Speed PHY • Implements Reduced Power Operating Modes			
	USB Host	• Complies with USB2.0 Specification • Support High0Speed(HS,480Mbps), Full-Speed(FS,12Mbps) • Up to 10 User-Configurable Endpoints			
	USB Client	• Supports industry-standard AMBA High-Performance Bus • Complies with Enhanced Host Controller Interface(EHCI) • Support High0Speed(HS,480Mbps), Full-Speed(FS,12Mbps)			
	UART	• 64-Bytes Transmit and receive data FIFOs • Compliant with industry-standard 16550 UART • DMA Controller interface • Support 5V TTL Level with 3.3V&5V			
	Battery Charger	• Input Overvoltage Protection • Automatic Sleep Mode for Low Power Consumption • Precharge Conditioning With Safety Timer • Integrated Power FET and Current Sensor for up to 1-A Charge Applications			
	Leather Cross bag	Optionally provided			
	Hand Strap	Default item attached to main device			

APPLICATION EXAMPLE

Logistics management	Retail management
Factory management / Asset management	Construction site management