

## Sales Sheet

# KONA Wireless BlueTooth Magnetic Strip and Bar Code Transaction Processing Engine

## OVERVIEW

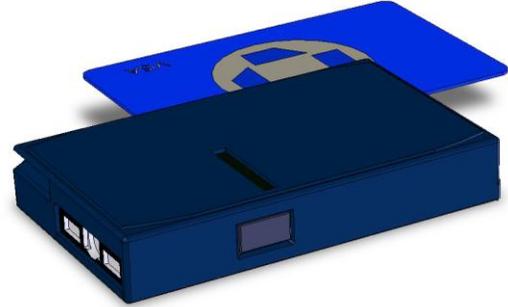
Kona is a highly flexible transaction processing engine for mobile smartphone and other Bluetooth enabled Point of Sale (POS) or Enterprise solutions. Kona supports encrypted end-to-end protection of sensitive credit card account data.

Support for 1-D traditional barcode scanning allows Kona to provide inventory management and Point of Sale scanning. Wireless capability allows Kona to be used independently and/or offline for transaction processing. The Bluetooth interface supports a variety of platforms, including Apple iPhone/iPad/iPod, Android, Windows Phone, PC and Macintosh.

An integrated chargeable battery provides long-term operation.

Kona includes a 1-line character display for status display.

Our extensive software development kits (SDKs) provide straightforward interfacing to your application requirements. Small enough to be easily slipped into a pocket or purse, Kona also can be physically attached to the back of a variety of smartphones for a more integrated application.



## PRODUCT FEATURES

### Magnetic Strip Capabilities

Full 3 track support is provided for ISO-7810/11/13 magnetic strip based credit/debit/stored value cards. Bi-directional swipe capability is provided by the magnetic head. A variety of different country formats are supported as well as different US state driver's license/ID formats.

### Encrypted Transaction Protection

Perceptive Development provides full 3DES encryption of magnetic strip data directly from the moment the credit card is swiped by the magnetic head. This ensures that the smartphone or enterprise equipment does not have the ability to store or retain full account information for the card. The default encryption process for protecting card data is DUKPT, which is a widely adopted process for managing encryption keys for Point of Sale terminals. Our solutions allow unique keying per device to be provided for your application and by using DUKPT, the security of your Base Derivation Key (BDK) is protected by using derived keys. For smartphone applications, the use of encryption within Kona allows the data to be immediately encrypted before the data is transmitted through the phone for backend decryption by the payment gateway or clearing agency. The phone is simply used as a modem and no clear text data is present on the phone or communicated through Wi-Fi or the cellular data network.

Kona provides standard redacted data to the phone (CardHolder name and last 5 digits of credit card number) as is standardly provided for transaction receipts. Only the backend transaction payment gateway has the ability to decrypt the data in a secure data center environment.

### Barcode Scanning

A small, energy-efficient barcode scanning engine is provided within Kona with an easy-to-use button for activating the scanning laser. Standard 1-D barcodes are captured and optionally stored within Kona for offline use. The scanning laser has a wide angle for high density barcode reading requirements. Excellent scanning performance for all type of bar codes including (RSS) and PDF417 symbology. Kona can forward the barcode data immediately if Bluetooth is connected or may store a number of scans for offline applications such as inventory of stock. For offline applications, Kona will provide a playback of scanned items when connected to the host processing platform.

### Bluetooth Interface

Kona supports Class 2 operation of Bluetooth, which provides a range of 10M for device connection. For warehouse applications where Kona may be out of range of the host computer/smartphone, Kona provides offline buffering of barcode data for applications such as inventory count cycles. Credit card transactions are only allowed when connected to a host computer/smartphone by default.

### Compact Size

Roughly the size of a deck of traditional playing cards, Kona is designed to be easily held within the palm of your hand and can be stored in a pocket or purse with little bulk.

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KUDOS TECH is a trademark of KUDOS Tech, LLC. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

"Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

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### APPLICATIONS

#### Point of Sale

Kona can be used to provide and/or supplement Point of Sale (POS) applications. Traditional use will be for scanning of consumer products at checkout time, inventory status, product lookup/pricing retrieval, and credit/debit card processing. Depending upon the type of host device being interfaced to (e.g. iPad), the customer may view a shopping cart, enter additional information such as shipping or rewards program enrollment, sign for the transaction on screen and have an email/text or paper receipt generated.

#### Inventory Management

Typical retail environments will require the complete count of inventory once a month or more frequently. Kona can be used to scan inventory in the store front/showroom as well as warehouse. This may be done connected to the host platform or offline, with Kona capturing and storing bar code scans for later playback into the host ERP system.

### SPECIFICATIONS

#### Magnetic Strip Reader

Head Life	1,000,000 cycles
Track Support	3 track ISO 7811 Compatible
Read Rates	3 to 80+ inches per second (7.5 to 200+ cm/sec)

#### Barcode Specifications

Light Source	635 nm visible red LED
Scan Rate	530 Scans/Sec
Resolution	0.1mm (PCS=90%)
Print Contrast Ratio	45%
D.O.F CODE-39	15 mil @ 70~350 mm
Symbologies	UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, China Postal Code, MSI Plessey Code, UK Plessey Code, EAN/UCC 128, IATA Code, Telepen Code, RSS-14, RSS-Limited, PDF-417
Ambient Light Light)	0 ~ 20,000 Lux (Fluorescent)



#### General Specifications

Battery	2x AAA rechargeable or Alkaline
Battery Life	(typ) 8 hours per charge, 100 transactions per hour
Operating Temperature	0~50°C
Storage Temperature	-20~60°C
Relative Humidity	20%~85%RH (Non-condensing)
Safety Approval	FCC Class B, CE, Apple MFI (pending)

### OPTIONS/ORDERING CODES

#### Hardware

Kona-MB	Magnetic Strip Reader, 1D Bar Code Scanner
Kona-M	Magnetic Strip Reader