



# Low Frequency RFID Technologies



## TYPES OF LF RFID READERS YOU CAN HAVE IN YOUR GRABBA

### X005 – Standard Range

Reads and writes 125/134 KHz cards and tokens. Designed for general use.

### X006 – Long Range Reader

Reads 125/134 KHz cards and tokens with a longer read range. This reader is a perfect solution when the token or tag is intradermic or inside, for example, a wallet or a pouch. Designed for use with animal tagging or applications needing a reading distance greater than the X005 reader.

### X007 – Standard Range

Reads 125 KHz cards and tokens and is designed for several use cases like small tags for item tracking or even wristbands or other accessories for

From the top left: Grabba S-Series with Samsung Galaxy S5 and Grabba ATR-Series with iPhone 6 Plus.

## ABOUT OUR LF RFID TECHNOLOGY

Grabba Low Frequency RFID readers offer only the best technology available in the market to ensure the best performance. Low Frequency RFID readers are commonly used for animal ID tags for Animal Tracking, for Access Control for Events or Sport Centers, Warehouse Inventory and Items Tracking.

Low Frequency RFID tokens come in lots of different sizes and shapes. From something no bigger than a grain of rice to battery powered tags the size of a smartphone, or even in wristbands for Access Control for Events. Grabba technology can read them all.

The Grabba innovative and configurable design allows the user to select not only the correct RFID reader, but also up to five other technologies to include in the one Grabba unit, so as to precisely and cost-effectively meet the needs of the use case. Those other technologies include Barcode scanners, MRZ (passport) readers, Fingerprint readers, Contact Smartcard readers and Magnetic Stripe readers.

Another advantage of the unique Grabba design is that it allows Grabba units to be simply upgraded to work with later model smartphones and to add other technologies without the need to purchase new Grabba units. This substantially reduces the Total Cost of Ownership of Grabba units.

Our Low Frequency RFID readers are available for:

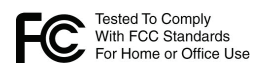
Grabba **S-Series**

Grabba **ATR-Series**



iOS

Windows Phone



Tested To Comply With FCC Standards For Home or Office Use



## LF RFID READER SPECIFICATIONS

### Performance Specifications

	X005	X006	X007
Frequency supported	125/134Khz	125/134Khz	125Khz
Operation supported	Read/Write	Read	Read Only
Range (depends on token)	0-50mm	0-150mm	0-50mm
Supported tags Hitag 1and 2, EM 4x02, EM4x50, Q5 and TI-RFID (Tiris)	✓		✓
HDX Compatible	✓	✓	
H4002		✓	
Hitag S, EM 4x05 (ISO FDX-B)	✓	✓	
ISO 11784/5 animal tags		✓	
SDK control	✓	✓	✓
Intradermic Reading		✓	

Read/Write range is a function of both the Grabba Low Frequency RFID reader and also the RFID token so the ranges specified are an average range.

### Supported Software

Smartphone/PDA Operating Systems	Android, iOS, Windows Phone, BlackBerry 10
Development Environments	Android Studio, Eclipse, Xcode, Visual Studio.
Development SDK	SDK available through Free Membership in our Software Developer Program
Free Software available on every app store	Keyboard Wedge and Demo Program for all platforms and Grabba Browser for iOS

## ABOUT GRABBA

Grabba is a world leader in the design, engineering and manufacture of data capture units that attach to and work with commercially available smartphones and tablets. Utilizing the Grabba patented USB communication methodology provides high accuracy, reliable and efficient mobile, handheld units.

Grabba unique designs, the ability to include multiple technologies in the one Grabba unit to exactly suit the requirements of the use-case, combined with the ease of upgrading new technologies or to later model smartphones or tablets, results in cost-effective solutions now and in the future.

Grabba units have been successfully utilized in almost every vertical market in more than 80 countries. Find out what Grabba can do for you.

### Grabba Technologies available:



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