



Low Frequency RFID Series

Technical Specifications



↓ FEATURES OF TECHNOLOGY FOR THE GRABBA LOW FREQUENCY RFID READER

X005 Standard range

Reads and Writes 125/134Khz cards and tokens, designed for general use.

X006 version Long range Reader

Reads 125/134Khz cards and tokens, designed for use with animal tagging or applications needing a reading distance greater than the Grabba x005 reader.

X007 version standard range

Reads 125Khz cards and tokens, designed for general use.

From the top-left: Grabba S-Series with BlackBerry® Bold™ 9780 and Grabba S-Series Long Range in use iPhone 4.

→ ABOUT GRABBA AND TECHNOLOGIES

Grabba has long experience with mobile RFID readers and we have several models available. We offer only the best technology and capability with our RFID readers for Smartphones/PDAs.

With Grabba a large variety of combination readers are also available so you can include other reading technologies (e.g. Barcode, Magnetic Stripe, Smartcard, Signature Capture etc) in your Grabba so your purchase can match exactly all your needs both now and in the future.

Smartphones supported

- Blackberry
- Apple
- Windows Mobile
- Android

Grabba Low Frequency RFID readers are used reading Animal ID tags, Tokens and Cards. Typical uses are animal tracking, access control and item tracking.



LOW FREQUENCY RFID READER SPECIFICATIONS

General Specifications

Size	174 x 80 x 43mm (6.85 x3.15 x 1.7")
Weight	140g Approx (4.9 oz)
Drop tests	Withstands multiple 2 Metre drops to concrete
Relative Humidity	5-95% (non-condensing)
Warranty	12 months from date of purchase (see warranty statement for details)
Battery type	Internal Rechargeable Lithium-Ion 3.7V
Capacity	800 mAh
Charge Time	up to 5 hrs
Standards and Compliance	FCC-Part 15, CE, C-Tick (N14052), ROHS
Whats in the Box?	1 x Grabba Low Frequency RFID reader, 1 x International Power Adaptor, 1 x User Guide

Note: this is a guide, specs may vary due to final configuration



RFID low frequency tokens can be 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. Read/Write range is a function of both the Grabba and also the RFID token so the ranges specified are an average range.

Supported Software

Smartphone/PDA Operating Systems	BlackBerry, iPhone, Windows Mobile, Windows CE, Android
Development Environments	iOS, Java, Eclipse, .Net Compact Framework (VB.NET & C#,NET) and many others
Development SDK	SDK supplied upon Free membership for Developers into our Software Developer Program
Free Software available from Grabba	Grabba Browser application for iPhone/iPod, Keyboard Wedge application & Demo Program for other operating systems

Note: this is constantly changing, if it's not listed contact us

Performance Specifications

Grabba Series	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	yes		yes
Hitag 1and 2, EM 4x02, EM4x50, Q5 and TI-RFID (Tiris)			
HDX Compatible	yes	yes	
H4002		yes	
Hitag S, EM 4x05 (ISO FDX-B)	yes	yes	
ISO 11784/5 animal tags		yes	
SDK control	yes	yes	yes

Note: this is a guide, performance may vary depending on conditions

ABOUT RFID TECHNOLOGIES

RFID cards/tokens are widely used around the world. A wide variety of frequencies are also used. At Grabba we provide readers for low frequency (125-134kHz), High Frequency(13.56Mhz) and Ultra High Frequency (860-960 MHz).

To successfully implement an RFID reading application you must be sure of the operating frequency and specifications of the target card/token. If you are not sure send a sample to Grabba for evaluation and testing.

The standard Grabba Low Frequency RFID Readers will read the RFID data only however you can order Combination Grabba devices that can read other data capture technologies as well in the same unit.

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