



HF RFID Reader Series

Technical Specifications



↓ FEATURES OF TECHNOLOGY FOR THE GRABBA HF RFID READER

Technologies

Reads and interacts with 13.56Mhz tokens, cards and tags.

Standards Compatible

Uses Mifare, I-CODE and ISO14443-4 transmission protocols.

Developer Friendly – Easy to implement SDK

Free SDKs for registered developers for popular Smartphones such as Android, iPhone, and Blackberry.

Add Other Technologies – Combine or add technologies

You can combine your reading of Mifare/I-CODE Cards and Tokens with other technologies such as Barcode, Magnetic Stripe, Fingerprint and many others. These can be ordered initially with added technologies or upgraded later to include other technologies.



From the top-left: Grabba S-Series in use with Samsung Galaxy S3, reading ePassport chip, Grabba S-Series with iPhone 4 and Grabba S-Series rear view.

→ ABOUT GRABBA AND TECHNOLOGIES

Grabba is the world leader in enabling the use of Smartphones in the commercial environment by manufacturing Data Capture devices that attach to the Smartphone utilising our Patented USB communications.

The Grabba readers open opportunities for developers in expanding the use of RFID credentials to the mobile environment. Now you can check, confirm and/or write HF (13.56Mhz) RFID information using a Smartphone.

A large variety of combination readers are also available to allow you to include other reading technologies (e.g. Barcode, Contact Smartcard, Fingerprint Reading, Signature Capture etc) with your Grabba reader. The Grabba you purchase can exactly match all your needs both now and in the future.

Common devices supported

- Samsung Galaxy S3/S4/S5
- iPhones and iPod Touch
- BlackBerry® Smartphones
- Many more... (coming soon)

High Frequency RFID Grabba devices are used in border control, reading ePassport chips, membership applications, asset tracking, logistics, healthcare, pharmaceutical, transport ticketing and event ticketing



HF 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	800Mah
Charge Time	up to 5 hrs
Standards and Compliance	FCC-Part 15, CE, C-Tick (N14052), ROHS
What's in the Box?	1 x Grabba HF RFID reader, 1 x International Power Adaptor, 1 x User Guide

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



Actual read range is very dependent on the actual token being read.

On contactless payment cards like Visa Wave, PayPass & ExpressPay, track 2 equivalent data can be read by the Grabba.

The CSN (Card Serial number) of a HID iClass token can also be read with a Grabba HF RFID reader. To read and write iClass information such as the Programmed ID etc., a Grabba iClass reader is needed.

Supported Software

Smartphone/PDA Operating Systems	Android, iOS, Windows Phone, BlackBerry 10
Development Environments	Java, Eclipse, Xcode, Cordoba 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	XXX2
Supported Card Types	Mifare® Standard, Mifare® 4k, Mifare® Pro, Mifare® Ultralight, Mifare® DESFIRE, Mifare® SmartMX, I-CODE SLI (SL2 ICS 20), I-CODE EPC (SL2 ICS 10), I-CODE UID (SL2 ICS 11), I-CODE, Tag-it™ HF-I Standard, Tag-it™, ISO14443A, ISO14443B and ISO15693 Tags Contactless payment cards such as Visa Wave, PayPass & ExpressPay iClass card serial number (CSN) only
Range	0-100 mm
Transmission Protocols	Mifare, I-CODE & ISO 14443-4
Transmit Frequency	13.56 MHz
Storage Temperature	-20° to +70° C (-4° to 158° F)

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



ABOUT GRABBA HF RFID TECHNOLOGIES

Standard Grabba RFID readers may also include other technologies which may assist in areas where the RFID technology is not the only form of Data Capture technology required.

HF RFID is a mature RFID technology and it is a short range technology. The Grabba HF RFID reader is also a mature product with high reliability and is used in very demanding situations.

Grabba Technologies available:



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