Contact Smartcard
Technologies

TYPES OF CONTACT SMARTCARD READERS
YOU CAN HAVE IN YOUR GRABBA

X010 – Contact Smartcard Reader

Read and Write to Microcontroller
Grabba Smartcard reader will read and write to the card microcontroller with T=0 (character-level transmission protocol, defined in ISO/IEC 7816-3) and T=1 (block-level transmission protocol, defined in ISO/IEC 7816-3) protocol.

Read and Write to Popular Memory Cards
It is compatible with popular Smartcards such as those from Siemens, ATmel and STMicroelectronics.

Solid Insertion
Our Smartcard reader has a solid insertion system, so when the card is inserted it is held by the reader, preventing the card from being accidentally disconnected.

ABOUT OUR CONTACT SMARTCARD TECHNOLOGY

Grabba Contact Smartcard readers are used to read national ID cards, transport, security, membership and stored payment cards. Common users are Law Enforcement, Government Departments, Public Infrastructure, Commercial Facilities, Club Membership Applications, Hospitality, Health Insurance Companies and Payment Verifiers.

Contact and contactless (HF RFID) Smartcards are widely used around the world. Grabba provides readers for both types, either alone, or in combination in the one Grabba unit, providing the user with a comprehensive solution for almost every application. To successfully implement a Contact Smartcard reading application you must know the specifications of the target card. If you are not sure, please send us a sample for evaluation.

The Grabba innovative and configurable design allows the user to select not only the correct Contact Smartcard 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, RFID 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.

From the top-left: Grabba S-Series in use with iPhone 6, Grabba S-Series in use with Samsung Galaxy S6 and Grabba Z-Series in use with Samsung Galaxy S5.

Our Contact Smartcard reader is available for:

Grabba **S-Series**

Grabba **Z-Series**

FC Tested To Comply With FCC Standards For Home or Office Use   C E

C N14052   RoHS compliant

CONTACT SMARTCARD READER SPECIFICATIONS

Performance Specifications

Smartcard interface	ISO 7816 Class A, B and C (5V, 3V, 1.8V) T=0 and T=1 communication protocol Communication Speed – 115200 baud
Supported memory card protocols	SLE4432/42, SLE4418/28, Atmel - AT88SC06, AT24CO1-16, STMicroelectronics - I2C and XI2C. Others upon request
Smartcard contacts	ISO 8 Position Sliding contacts Minimum 10,000 cycles ESD protection – >6KV Auto Deactivation of card contacts upon card removal.

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

Grabba Contact Smartcard reader functions/data are accessed via the Grabba SDK. Be sure to check out the demo applications for software developers to ensure you get the full functionality available to your application.

WHY CHOOSE GRABBA

Secure USB Connection
As the Grabba unit plugs into the USB port of the smartphone or tablet, all communication and data transfer are hard-wired and therefore more secure than wireless transmissions.

One solution, One charger.
The Grabba connection to the smartphone or tablet allows the Grabba charger to charge both the Grabba unit and the attached device at the same time. This single-charger convenience ensures that a completely charged solution is ready at the start of each work day.

Technical Support
The Grabba engineering and support teams are constantly developing and improving the Grabba solutions and are available, at no charge, to assist customers with any issues they may have.

Wide Compatibility
The unique Grabba design ensures that Grabba units are compatible with a wide variety of commercially available smartphones and tablets.

Upgradeable
The unique Grabba design allows a Grabba unit to be quickly and easily upgraded to attach to and work with later model smartphones or tablets and to add new technologies if required by changing use-cases. There is no need to purchase new Grabba units. This benefit greatly reduces the Total Cost of Ownership of Grabba units.

Instant Wakeup
No need to wait long time to run the solution or establishing the linkage. Pairing is not required. Just connect and start grabbing.

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:

GRABBA