



# Fingerprint Technologies



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

## TYPES OF FINGERPRINT SCANNERS YOU CAN HAVE IN YOUR GRABBA

### X000-WSQ – FAP10 Fingerprint with WSQ Compression

The WSQ version provides high quality fingerprint images and an industry standard method of compression to make remote verification faster, cost-effective and more reliable. This version is best suited for remote verification tasks.

### X000-SFP – FAP10 Fingerprint with LDB

This reader provides high quality fingerprint images and includes storage for up to 1000 template in the Local Data Base (LDB). This makes it ideal for enroll and verify applications.

### X000-PIF – FAP10 Fingerprint with FFD

This reader adds Fake Fingerprint Detection (FFD) to the SFP module capabilities so as to mitigate attempts at fingerprint falsification. This model allows both local and remote verification. This module is **PIV Certified**.

### X000-PIV – The complete FAP10 solution (WSQ, LDB and FFD)

This fingerprint module is the most complete and flexible solution offering not only WSQ compression, but also Fake Fingerprint Detection (FFD) and both local and remote matching and enrolment as templates can be stored in the module, device or in the cloud. This module is **PIV Certified**.

## ABOUT OUR FINGERPRINT TECHNOLOGY

Grabba Fingerprint readers have wide application where mobile ID checking and verification is required such as in Border Protection, Law Enforcement, Voter Registration and Controlling Entry into sensitive sites.

The Grabba innovative and configurable design allows the user to select not only the correct Fingerprint 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, RFID 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 Fingerprint readers are available for:

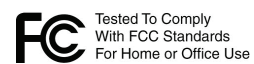
Grabba **S-Series**

Grabba **Z-Series**



iOS

Windows Phone



Tested To Comply With FCC Standards For Home or Office Use



## FINGERPRINT SCANNER SPECIFICATIONS

### Performance Specifications

Template formats	Morpho proprietary, ISO SC37 19794-2 or ANSI/INCITS 378
False acceptance rate (FAR)	down to 10 <sup>-8</sup>
Capture area (FAP10)	14mm x22mm
Sensor resolution	500 DPI

### Modules Specifications

	SFP	WSQ	PIF	PIV
WSQ		✓		✓
FFD (Fake Finger Detection)			✓	✓
LDB (Local Data Base)	✓		✓	✓

### 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

## FINGERPRINT TECHNOLOGIES

The Grabba Fingerprint reader modules are based on Morpho's proprietary optical technology and biometric algorithms, which are both known worldwide for their high levels of accuracy and performance. The Grabba Fingerprint Readers offer a flexible, robust, cost-effective solution for the fast and secure processing of high quality fingerprint images. To better choose which solution best fits your needs you can learn more about which fingerprint technologies are available:

**WSQ Compression:** it is a proprietary compression algorithm used for gray-scale fingerprint images. This standard is widely used due to its efficient storage of compressed fingerprint images at 500 pixels per inch (ppi) and its quality, which avoids the loss of fine-scale features which are required for identification in financial environments or law enforcement.

**FFD (Fake Finger Detection):** this technology is capable to detect a large selection of counterfeit fingerprints, including but not limited to those made with latex, gelatin, Plasticine, Kapton, transparent film, silicone, rubber, Play-Doh, graphite or paper.

**LDB (Local Data Base):** there are some modules that allow for secure storage templates in its own local data base. The usage of LDB provides an extremely secure environment and very fast enrolment and matching processes, but it is limited in the number of templates it can store, so capacity is limited.

**AFIS (Automatic Fingerprint Identification System):** all our solutions offer the possibility of storing templates and making the matching tasks in the mobile device and even in the cloud.

## 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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