



S Series

The **Grabba S-Series** product line offers versatile, handheld and rugged devices to attach to phones or tablets for data capturing and biometric identification. **Grabba S-Series'** unique flexible configuration offers a tailor-made solution for every particular use case in verticals like **Law Enforcement** and **Border Protection, Retail, Travel Industry, Access Control** and **Security, Warehousing, Logistics** and **Freight**.

S-Series for:



MRZ reader



X040

The Grabba MRZ reader is an Optical Character Recognition (OCR) swipe reader that is able to decode the information contained in the MRZ of **Machine Readable Travel Documents (MRTDs)** like **Visas, e-Passports** and **National IDs**.

HF RFID reader



**X002/X003-SE/X005
X006/X007/X008**

LF, HF, UHF and HID iClass SE Dual Frequency RFID readers offering the best technology available to ensure superior performance. Our RFID readers are compatible with the most common RFID cards and tokens including **ICAO 9303 compliant e-Passports**.

Barcode scanner



X200/X300/X400/X500

Different high performance barcode scanner options depending on the customer's use case: **1D** and/or **2D** barcodes, **indoor** and/or **outdoor** lightning conditions and even **PDF147** barcodes compatible, used in **National IDs** and **Driver Licenses**.

Magnetic Stripe reader



X020

The advanced multitrack reading head will read **1, 2 or 3 track cards** even if they are **badly damaged**. It is **extremely fast and reliable** with a life expectancy of more than **1 million passes**. Compliant with **AAMVA, ISO7810, 7811** and **ANSI**.

Fingerprint scanner



**X000-SFP/WSQ/PIF
PIV/IBS**

Different **FAP10 Fingerprint scanner** options based on **Morpho's proprietary optical technology** with **WSQ, LDB** and **FFD** depending on the module. Also available **FAP45 two finger flat scanner**. All our modules are **PIV certified by the United States FBI**.

Contact SmartCard reader



X010

Reads from and writes to the card microcontroller with **T=0** and **T=1** protocol. Compatible with **Siemens, ATmel** and **STMicroelectronics** cards. **X010** can **access and read the chip** in **National IDs, Health Insurance cards, etc.**

	Hard Tray	Bumper Tray*
Samsung		
Samsung Galaxy Note 4	✓	
Samsung Galaxy Note 5	✓	
Samsung Galaxy A9		✓
Samsung Galaxy S4	✓	
Samsung Galaxy S5	✓	
Samsung Galaxy S6	✓	✓
Samsung Galaxy S7		✓
Samsung J5 2016		✓
Apple		
iPod touch 5th generation	✓	
iPod touch 6th generation	✓	
iPhone 5	✓	
iPhone 5s	✓	
iPhone SE	✓	
iPhone 6	✓	
iPhone 6s	✓	
iPhone 6 Plus	✓	
iPhone 6s Plus	✓	

* Bumper Tray only available for use in conjunction with S2-Series Evo Top Plate which is compatible with S-Series.

Two form factors depending on the combination of technologies:

- S-Series **SLIM Case**
- S-Series **MOA Case**

Technologies available for Grabba S-Series

Technology	Code	Description	S-Series SLIM	S-Series MOA
Barcode	X200	1D CCD Barcode reader	✓	✓
	X300	High Performance 1D and 2D CCD Barcode reader	✓	✓
	X400	1D and 2D CCD Barcode reader with greyscale photo capture	✓	✓
	X500	1D and 2D CCD Barcode reader with driver licence decoding	✓	✓
Contact Smart Card	X010	T=0 and T=1	✓	✓
MagStripe	X020	Multi-track reading	—	✓
MRZ	X040	e-Passport, e-MRTD and MRV	—	✓
RFID	X002	Mifare Classic (S/N only), Mifare Classic Read/Write, ISO14443 A, B, Part 4, iCode, ISO15693, iCLASS Serial Number Only	—	✓
	X003-SE	Serial number/PACs reading, iClass read/write, Mifare read/write	—	✓
	X005	LF 125/134kHz	—	✓
	X006	LF 125/134kHz long range	—	✓
	X007	LF 125kHz read only	—	✓
X008	UHF	—	✓	
Extended Battery	X000+	Adds 2600mAh battery for a total of 3400mAh with charging capabilities.	✓	✓
Fingerprint	X000-SFP	FAP10 Fingerprint with Local Data Base	✓	✓
	X000-WSQ	FAP 10 Fingerprint with WSQ compression	✓	✓
	X000-PIF	FAP10 Fingerprint, Local Data Base, Fake Finger Detection	✓	✓
	X000-PIV	FAP10 PIV compliant (FBI certified), WSQ, Local Data Base, Fake Finger detection	✓	✓
	X000-IBS	FAP 45 PIV compliant (FBI certified), WSQ, Fake Finger Detection	—	✓



Grabba S-Series SLIM

Grabba S-Series MOA

Note: This is a guide. Specs may vary due to final configuration.

Hassle Free



Grabba S-Series devices can work with **Android, Apple and Windows 10** phones. We provide an **easy to install solution** so you can use your existing software easily. A **free SDK and development kit** is available if you write your own applications. The device is also **Plug and Play**, so just connect and start scanning. No need for waiting for establishing the linkage or running the solution. **Pairing is not required.**

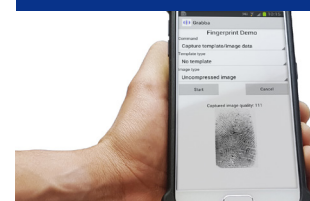
Bumper Tray Ready!



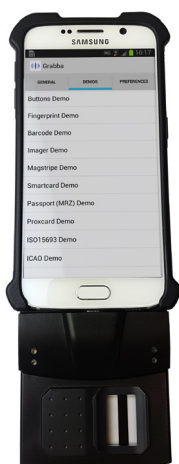
The new **Bumper Tray** combines Polycarbonate and TPE rubber that makes for a flexible tray yet able to **endure shocks, vibrations and impact resistance**. New **Bumper Trays** for different phone models are continuously under development. Check with us when the **Bumper Tray** for your phone will be ready.

*Bumper Trays are available for S-Series if using the Top Plate of new S2-Series Evo. Contact us to find the right combination for your case.

Handheld

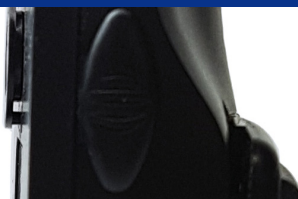


The **S-Series devices** are designed for a high quality **hand grip**. Despite so many technologies in the one device, its size makes it easy to use with only one hand. With **buttons on both sides**, it can be used easily both by right and left handed. It's total weight, with a full combination of technologies, does not exceed 251g, which makes the device **easy and comfortable to carry on**.



Grabba S-Series MOA with Samsung Galaxy S6

Rugged



The Polycarbonate plastic used for this device is **extremely impact resistant**. It is commonly used for riot police shields, bullet-proof windows and containment barriers. Thus, the plastic alone provides **significant ruggedness against drops and bumps up to 1.5 metres high**.

USB Block Insert



The **S-Series devices'** top plates include an ingenious solution consisting on a **interchangeable block** holding the USB connector. This USB replaceable system allows the device to be **easily upgraded** to later phone models without changing the Top Plate, just replacing the USB block, and so keeping the **Total Cost of Ownership (TCO) low**.

About Grabba S-Series

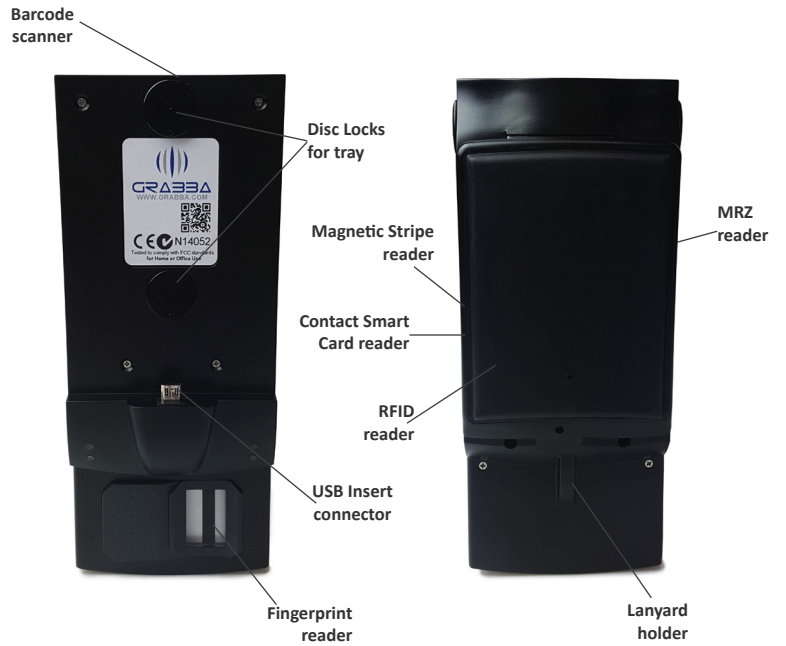
General Specifications

	SLIM case	SLIM with FP and Ext Battery	MOA case	MOA with FP and Ext Battery
Size w/o tray	131.7 x 70 x 35.5 mm	172.9 x 70.1 x 43.2 mm	131.7 x 70.1 x 43.2 mm	172.9 x 70.1 x 46.8 mm
Weight w/o tray	111g approx.	247g approx.	156g approx.	251g approx.
Drop tests	Withstands multiple 1.5 metres drops to concrete			
Relative Humidity	5-95% (non-condensing)			
Built-in Battery	Internal Rechargeable 3.7V 800mAh			
Charge Time	up to 5 hrs			
Whats in the Box?	1 x S-Series Device, 1 x Tray, 1 x International Power Adaptor, 1 x User Guide			
Warranty	12 months from date of purchase (see warranty statement for details)			

Note: This is a guide. Specs may vary due to final configuration.

Supported Software

Smartphone Operating Systems	Android, iOS, Windows 10
Development Environments	Android Studio, XCode, Eclipse, Visual Studio 2015.
Development SDK	SDK available through free membership in our Software Developer Program
Free Software available on every app store	Keyboard Wedge and Demo Application for all platforms.



Accessories for Grabba S-Series

Protective Case



Holster



Car Charger



Why choose Grabba S-Series

Secure USB Connection

As the Grabba device plugs into the USB port of the phone, all communication and data transfer are hard-wired, more secure and reliable than wireless transmissions like Bluetooth®.

One solution, One charger

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

Wide Compatibility

The unique Grabba design ensures that Grabba devices are compatible with a wide variety of commercially available phones.

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.

Upgradeable

The unique Grabba design allows a Grabba device to be quickly and easily upgraded to attach to and work with later model phones and to add new technologies if required by changing use-cases. This benefit greatly reduces the Total Cost of Ownership of Grabba devices.

Instant Wakeup

No need to wait! The Grabba device wakes instantly and doesn't need to be paired. Just start application and start grabbing.

About Grabba International

Grabba International is the world-leading manufacturer of data capture devices to attach to phones and tablets to securely access, collect and process data available in symbols, tokens, proof-of-identity documents and biometric identifiers. Grabba International designs, engineers, develops and manufactures all of their products in Brisbane, Australia.

Grabba devices can be provided with between one to seven of the following technologies: Barcode Scanners (1D & 2D), Contact Smart Card reader, Magnetic Stripe reader, MRZ (ePassport & ID Card) reader, RFID readers (Low Frequency, High Frequency, Ultra High Frequency, Dual Frequency HID iCLASS-SE), Fingerprint reader and Battery Expansion.

Grabba units have been successfully utilized in almost every vertical market in more than 80 countries.

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