



# GRABBA X-Series | X-5052-WSQ

A powerful and rugged device designed to capture biometric and biographic data in the most challenging environments.

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## Device Overview



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### General Specifications

Size w/o Tray (H x W x T)	167.5 mm x 74 mm x 47.5mm
Weight w/o Tray	280 g approx
Charging	USB type C port for the supplied Grabba charger
Connectivity	USB type C connection to smartphone
Battery Capacity	3000 mAh
Drop Tested	from 1.3 metres
Enclosure	High impact polycarbonate case material All exposed surfaces are rubber coated with a matt finish

### Supported Software Specifications

Smartphone Operating	Android
Development	SDK available in our Software Program
Free Software	Keyboard Wedge and Demo Application for all platforms

### Smart Card Reader Specifications - X010

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 –>10KV Auto deactivation of card contacts upon card removal

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### RFID Specifications - X002

Supported Card Types	Mifare® Standard, Mifare® 4k, Mifare® Pro, Mifare® Ultralight, Mifare® DESFIRE, Mifare® SmartMX, Mifare® Plus S/X (SL1, SL2), 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 VisaWave®, PayWave®, PayPass® and ExpressPay® iClass card serial number (CSN) only
Range	60 mm
Transmit Protocols	Mifare, I-CODE and ISO 14443-4
Transmit Frequency	13.56 MHz
Storage Temperature	-20° to +70° C (-4° to 158° F)

### MRZ Specifications - XX40

Standard OCR Fonts	OCR-B, E13B
Machine Readable Passports (MRP)	2 lines of 44 characters
Machine Readable Visas (MRV)	2 lines of 44 characters
Travel Documents	2 lines of 36 characters, or 3 lines of 30 characters
Field of View Object Height	19.6 mm nominal
ICAO Compliant	ICAO 9303
Standard	ISO/IEC 7501-1

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### Fingerprint - X000-WSQ

Template Formats	Morpho proprietary, ISO SC37 19794-2 or ANSI/INCITS 378
False Acceptance Rate (FAR)	down to $10^{-8}$
Capture Area (FAP10)	14mm x 22mm
Sensor Resolution	500 DPI
Matching Speed	0.6s in 1:1 mode / 0.7s in 1:500 mode
Certifications	MINEX & FIPS 201 compliant algorithms IP65 rated fingerprint capture surface

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