



SMA-EX-MULTI-FDD

MA SIGMA Extreme - Outdoor/WR/IP65/IK09, Multi-factor Bio/Card/PIN/BioPIN - 13.56 MHz Mifare - FDD

MA SIGMA Extreme Series

Rugged and powerful, the MorphoAccess® SIGMA Extreme is a remarkable addition to the SIGMA Family of fingerprint readers.

Embedded web server

The MA Extreme Series enables on-device enrollment, terminal configuration and transaction log retrieval thanks to the embedded web server. Moreover, it can be used with any device (PC, laptop, tablet, smartphone), any operating system (Windows, Android, iOS) or any web browser (Google Chrome, Mozilla Firefox, Safari and Internet Explorer).

Environment

Based on the same platform as other SIGMA devices, the outdoor MA SIGMA Extreme is specifically designed to operate in difficult environments (dust, salt mist, tough manual workplaces, etc.) and in harsh weather conditions.

Compatible with existing installations

The MA SIGMA Extreme Series can be used to upgrade an existing installation or to complement the installation with MorphoAccess® SIGMA (Lite) devices using the MorphoManager application or MIK SDK on a Morpho network or the SecureAdmin™ application or SecureSDK™ on a Bioscrypt network.

With the entire SIGMA Family, integrators have a complete range of biometric terminals at their disposal, compatible with each other, to secure any kind of use case scenario – whether indoors or outdoors – with the World's most accurate fingerprint technology."

Enhanced security features

The MA Extreme Series encompasses the latest and greatest anti-fraud features, such as: fake finger detection, duress finger, timed anti-pass back function and banned/authorized user lists.

Details

- Morpho fingerprint technology ranked #1 by NIST for accuracy
- Extendable identification capacity: 1:5K (default), 1:10K, 1:50K or 1:100K users, with genuine matching
- 1:100K identification in less than 1 second (for frequent users)
- Accuracy maintained regardless of number of users
- Touchscreen Time Clock, featuring 16 programmable function keys
- Access time slots and holidays scheduling
- Accurate clock in/out records (up to 1 Million logs storage capacity)
- Real-time employee notifications
- Job Code management
- Built-in camera, speaker and microphone
- Standard IP-based audio/video interface
- Call-in function: e.g. employees can quickly report a problem right from the Time Clock
- Surveillance: the terminal can be used by security staff to get pictures remotely from the security post
- Embedded Web Server, After connection (via Ethernet or optional Wi-Fi) to a laptop, tablet or smartphone
- Patented, BSI(2) certified electro-optical Fake Finger Detection technology (option)
- Face detection and picture logging
- Duress finger option
- Timed anti-pass back function
- Banned/authorized user lists
- Prox®, iClass® or MIFARE®/DESFire®/NFC(4) contactless card reader as an option
- Various software integration options

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Technical specifications

Technology

Reader type	BioMetric
Reader operating-transmitting frequency	13.56 MHz
Supported technology 13.56 MHz	MIFARE Classic (CSN), MIFARE Classic (custom data), MIFARE DESFire (CSN), MIFARE DESFire EV1 (CSN), MIFARE DESFire EV1 (custom data), Mifare DESFire EV2 (CSN), MIFARE Plus (CSN), MIFARE Plus (CSN, level 1 and 3)
CPU	ARM® Cortex™ -A9 core 1 GHz
Touch screen	5" WVGA

System

Max. reader distance to panel	Ethernet: 100 m, RS485: 1219 m
RTE (Request To Exit)	No
CSN (Card Serial Number)	Yes
Custom data model	Yes
No. of LEDs	1

Biometric

Biometric type	Fingerprint
Biometric sensor type	Optical

Interface & connections

Interface	Ethernet, OSDP V2, OSDP V2 Secure Channel, RS-485, USB, Wiegand
Connector type	Network, Pigtail
Pigtail length	40 cm
Network / Communication	Ethernet, RS485, USB
Network / Communication	Optional Wi-Fi
Inputs / Outputs	"Wiegand In & Out (customizable up to 512 bits)"
Inputs / Outputs	Door Relay
Inputs / Outputs	"3 GPI (including Door monitoring)"
Inputs / Outputs	3 GPO

Tamper type

Pry-off tamper	Yes
Opening tamper	Yes

Operation

Stand-alone	Yes
Stand-alone no. of users	5000
PIN keypad	Yes
PIN length	6
Internal storage capacity	512MB flash, 1GB RAM + 8GB microSD Card
Internal storage capacity	5000 user records (2 fingers + 1 duress each), extendable up to 100,000 with licenses
Internal storage capacity	250,000 IDs in authorized user list
Internal storage capacity	1 million transaction logs
Internal storage capacity	10,000 face picture logs
Anti-Fraud feature	Patented, BSI(2) certified electro-optical Fake Finger Detection technology

Support

Language installation manual	English
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Electrical

Power supply type	VDC
Power supply value	12 to 24 VDC
Current consumption	1A min @ 12VDC

Physical

Physical dimensions	300 x 130 x 95 mm
Net weight	1500 g
Shipping weight	1700 g
Colour	Black
Material	Polycarbonate
Form factor	Oversized
Mounting type	Surface mount

Environmental

Vandal proof	Yes
Storage temperature	-25 to +75°C
IP rating	IP65 IK09

Standards & regulation

Compliance	CE, FCC, FCC Part 15 Class A, REACH, RoHS, WEEE
Sensor certification	FBI PIV IQS certified optical fingerprint sensor



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