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Data Sheet

MorphoAccess® SIGMA Lite Fingerprint Terminals

Key Features

- 1:10,000 user identification in 1 second
- High capacity: 30,000 templates, 250,000 IDs in authorised user list, 1 Million log
- Flexibility: Prox®, iCLASS® or MIFARE®/ DESFire® contactless card reader as an option
- Anti-fraud: fake finger and duress finger
- IP65 rated and vandal resistant (IK08)(1)
- Embedded Web Server for on-device enrollment, terminal configuration and transaction log retrieval

SIGMA Family Readers

Engineered with the same attention to detail and performance as their predecessor, the MorphoAccess® SIGMA Lite terminals are specifically designed to equip narrow mounting surfaces, such as glass/aluminum door mullions, turnstiles, or server rack doors. With two designs and multiple card reader options, there are a variety of models to address the widest range of deployment scenarios, both indoor and outdoor.

Ultra Secure

The world's most accurate fingerprint technology is further enhanced with additional anti-fraud technology such as, fake finger detection, duress finger, banned/authorised user lists and timed anti-passback function that prevents repeated authorisations by the same user within a configurable time period.

Intuitive, Flexible User Interface

Embedded Web Server
- Enables on-device enrollment, terminal configuration and transaction log retrieval
- Use with any device (PC, laptop, tablet, smartphone)
- Use with any OS (Windows, Android, Apple iOS)
- Use with any Web browser (Google Chrome, Mozilla Firefox, Safari, Internet Explorer)

Easy Set-Up and Maintenance

Built for the real world and designed to save installation time and reduce maintenance costs.
- Easy installation with an adjustable mounting plate to either side of axis
- On-device or remote IP-based set-up
- Secure USB port
- 3D Face Reader

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Compatible with Existing Installations

Upgrade or complement your installation with MorphoAccess® SIGMA and SIGMA Lite devices using MorphoManager application on a Morpho network. Using SecureAdmin application or SecureSDK on a Bioscrypt network.

Integration with Access Control

Morpho provides an access control integration middleware called BioBridge. BioBridge is an enrollment and synchronization middleware that overlays enrollment and demographic synchronisation between MorphoManager and CEM Systems' AC2000 access control systems. The following BioBridge compatible Morpho series readers are available from CEM Systems:

- SIGMA Series
- SIGMA Lite Series
- 3D Face Reader

Specifications*

*specification will vary depending on which model is selected. Contact CEM for details on current selected model.

General	
CPU	ARM® Cortex™-A9 core 1GHz
Operating System	Linux
Sensor	FBI PIV IQS certified optical fingerprint sensor
Contactless Reader Options	Prox®, iCLASS®, MIFARE®/DESfire CSN
Network/Communication	Ethernet, RS-485, USB Wi-Fi option
	512MB Flash, 512MB RAM
Internal Storage Capacity	- 500 user records, extendable to 3,000 or 10,000 with license (*3 templates each, including 1 duress)
	- 250,000 IDs in authorised user list
	- 1 Million transaction logs
Inputs/Outputs	Wiegand (customisable up to 512 bits), door relay, 2 general purpose inputs (including door monitoring), 2 general purpose outputs
Tamper Switch	Yes
Environmental	
Operational Temperature	-20°C to 55°C (-4°F to 131°F)
Humidity	10% to 80% (non-condensing)
Enclosure	
Dimensions (HxWxD)	156mm x 68mm x 62mm (6.14 x 2.68 x 2.44 inches)-240V AC
Weight	280 grams (0.62lbs)
Impact Resistance	IK08(1)(1)
Protection	IP65
Electrical	
Operating Voltage	12V-24V DC, Power over Ethernet (PoE) compatible with PoE+ switches
Operating Current	1 Amp min @12V, 15.36W on PoE
Regulatory	
Agency Certifications	CE, CB, FCC
Compliance	RoHS, REACh, WEEE

(1) IK08 rating is not available for MA SIGMA Lite+ design

Ordering Information
MorphoAccess Sigma Lite Fingerprint Readers

Product Code	Description
HDS/670/375	MorphoManager Pack Pro for enrollment, verification & management of biometric templates. Includes software download, license dongle and enrollment reader
HDS/678/009	MorphoAccess Sigma Lite Bio-only for 500 users
HDS/678/008	MorphoAccess Sigma Lite iClass with Bio for 500 users
HDS/678/001	MorphoAccess Sigma Lite Prox with Bio for 500 users
HDS/678/007	MorphoAccess Sigma Lite Mifare/DESFire with Bio for 500 users
SWMORPHO-03K	MorphoAccess Sigma Lite 3K user database upgrade license
SWMORPHO-10K	MorphoAccess Sigma Lite 10K user database upgrade license

Contact your CEM Systems sales contact for information on other supported Sigma model types availability.

Related Products

- AC2000
- AC2000 Lite
- AC2000 Airport

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.cemsys.com or follow CEM Systems on LinkedIn and Twitter.

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