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Data Sheet

IDEMIA MorphoWave™ Compact
Frictionless Biometric Access Control Reader with CEM Systems AC2000

Features That Make a Difference

· Patented touchless sensor technology scans four fingers in 3D, ensuring the most accurate and reliable fingerprint matching for maximum security

· Captures and matches four fingers on either right or left hand, in any direction

· Acquisition is dynamic, high-speed and 100% touchless

· Immune to finger pressure variations

· No ghost images (latent prints) left on scanner

· Mitigates hygiene and cultural concerns

· Robust against external light and dust

· Support for 1:N fingerprint identification

· 20K onboard user capacity (extendable to 40K with licenses)

· Supports Prox, iCLASS®, MIFARE® and DESFire® cards and PIN code, in addition to biometrics

· Fake finger detection

· IP65 rated design

· Power over Ethernet (PoE+)

· Multiple interfaces including TCP/IP

The Ultimate in Efficiency

As enterprises continue to move towards efficiency, frictionless access to controlled areas is paramount. Users need to be able to gain access naturally, without having to break gait. MorphoWave™ Compact by IDEMIA provides frictionless biometric access control via contactless 3D fingerprint technology which captures and matches four fingerprints with a single hand movement. It implements a patented, truly contactless technology that not only acquires extremely accurate fingerprint data, but also overcomes the challenges wet/dry fingers and latent prints pose to conventional scanning systems in a stylish and compact device, suitable for any location.

Intuitive, Flexible User Interface

Developed around the look and feel of today's most intuitive consumer electronics, the MorphoWave Compact is designed for fast user adoption:

· 4.3'' WVGA color capacitive touchscreen highlighting sophisticated graphic user interface

· Seamless on device administration

· Extensive customization capabilities using your own content (corporate video, audio messages, wallpapers, etc.)

· Time & Attendance features including programmable function keys, real-time employee notifications, and job code management

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Patented Touchless Sensor

The dynamic, patented touchless sensor provided by MorphoWave Compact allows users to remain 'on the move' when passing through a control point, making it ideal for securing high traffic areas.

· Four finger 'on the fly' capture
· Easily copes with dry and wet fingers
· No ghost images left on scanner
· Mitigates hygiene concerns
· Robust against external light and dust
· FBI PIV IQS certified

Integration with Access Control

IDEMIA Morpho provides an access control integration middleware called BioBridge. BioBridge is an enrollment and synchronization middleware that overlays enrollment and demographic synchronization between MorphoManager and CEM Systems AC2000 access control system. BioBridge is compatible with the MorphoWave Compact.

Specifications

Physical	
Dimensions (H x W x D)	250 x 152 x 216 mm (9.9 x 6 x 8.5 inches)
Weight	2.2 kg (4.85 lb)
Environmental	
Operational Temperature	–10°C to 55°C (14°F to 131°F)
Humidity	10% to 95% (non condensing)
IP Rating	IP65*
Electrical	
Power Supply	12 to 24V DC (2.5A min @12V) Power over Ethernet with PoE+ switches
General Features	
CPU	Nvidia ARM Cortex-A15 Quad-Core 2.1GHz
Operating System	Linux
Display	4.3'' WVGA color capacitive touchscreen
Audio	Yes, loudspeaker and microphone
Video	Yes, audio and video player
Sensor	FBI PIV IQS certified optical contactless fingerprint sensor
Contactless Reader Options	Prox, iCLASS, MIFARE/DESFire
Network/Communications	Ethernet, RS-485, RS-422, USB Wi-Fi and 4G options
Internal Storage Capacity	16GB Flash, 2GB RAM 20,000 user records (2 x 4 fingers each) for 1:N identification, extendable to 40,000 with licenses** 250,000 IDs in authorized user list
Log Storage Capacity	1 million transactions
Inputs/Outputs	Wiegand In & Out (customizable up to 512 bits), Door Relay, 3 GPI (including Door monitoring), 3 GPO
Tamper Switch	Yes
Regulatory	
Agency Certifications	CE, CB, FCC
Compliance	RoHS, REACh and WEEE compliant

* Recommendation for outdoor installation: avoid direct exposure of sensor to rain (e.g. place under a canopy)

** Contact your local sales representative in case of higher user database size requirements

Ordering Information

Product Code	Description
HDS/722/008	MorphoWave Compact Touchless 3D fingerprint reader HID Prox, iCLASS/ MIFARE/DESFire Card Reader
HDS/722/007	MorphoWave Compact Touchless 3D fingerprint reader MIFARE/DESFire Card Reader

To order contact cem.sales@tycoint.com or call +44(0) 2890 456 767

Approvals

CE CB FC

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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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