SMA-MWC-SP-MD

MorphoWave™ SP - 4 finger ‘on the fly’ reader - Bio/Card/PIN/BioPIN (10K users) Mifare/Mifare DESFire EV1, IP65

MorphoWave™ XP

The newest addition for frictionless biometric access control. This masterpiece of engineering delivers the award-winning, field-proven performance of MorphoWave™ contactless 3D fingerprint technology in a stylish and compact wall-mounted device, suitable for any location.

Convenience & security

Users are positively identified with a simple wave of the hand. The patented touchless sensor technology scans 4 fingers in 3D, ensuring the most accurate and reliable fingerprint matching for maximum security.

High throughput

The reader’s high speed, touchless acquisition capability allows users to remain in motion while being identified. Faster access control and time & attendance transactions reduce overall costs and increase employee productivity.

Versatile, easy deployment

IP65 rated and PoE+ powered, the compact wall-mount reader ensures that MorphoWave™ technology can be deployed at every location.

Multifactor authentication

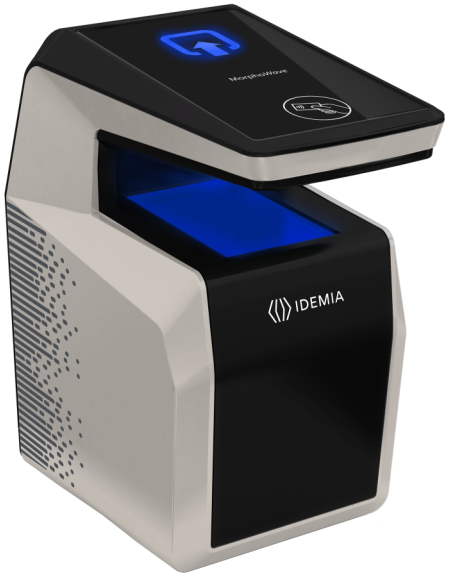
MorphoWave™ XP natively supports MIFARE, DESFire EV1 cards and PIN code, in addition to biometrics. It is also capable of scanning QR codes for visitor management.

The most proven touchless fingerprint technology...

MorphoWave™ touchless 3D fingerprint technology is designed for the real world.

• Captures and matches 4 fingers on either right or left hand, in any direction.
• Immune to environmental factors (external light, dust).
• Copes with wet and dry fingers.
• No latent prints left on scanner.
• Mitigates hygiene concerns.

The award-winning MorphoWave™ technology has become the benchmark in frictionless access, securing high traffic access points in the world’s largest financial institutions, critical infrastructure facilities, universities and healthcare organizations.



Details

- Stylish, functional design
- Patented touchless sensor
- 4.3” WVGA color touchscreen
- Frictionless biometric access solution
- Fake finger detection
- Timed anti-pass back function
- Banned/authorized user lists
- Standalone integration or in line with turnstiles
- Easily copes with dry and wet fingers
- No ghost images left on scanner
- Mitigates hygiene concerns
- Robust against external light and dust
- Touchscreen time clock, featuring 16 programmable function keys
- Seamless on device administration
- Extensive customization capabilities: user dedicated messages, corporate video, wallpapers
- Time & Attendance features, including: Programmable function keys, Real-time employee notifications, Job Code management
- Ideal for high throughput and high security applications
- 4 finger ‘on the fly’ capture
- Seamless on device administration
- Access time slots and holiday scheduling
- Real-time employee notifications
- Ingenious, symmetrical opening mechanism enables easy wall-mounting and in-place maintenance

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Technical specifications

System

Max. reader distance to panel	Ethernet: 100 m, RS485: 1219 m
Language installation manual	English

Technology

Reader type	BioMetric
Model type	MorphoWave™ SP
Reader operating-transmitting frequency	13.56 MHz
Supported technology 13.56 MHz	MIFARE Classic (CSN), MIFARE DESFire (CSN), MIFARE DESFire EV1 (CSN), MIFARE DESFire EV1 (custom data), Mifare DESFire EV2 (CSN)
Capture type	Hand swipe through the active volume without contact
Capture capacity per swipe motion	Up to 4 fingers

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, Terminal Strip, USB
LAN connection	For terminal configuration and data transfer: Ethernet 10/100 Base T (MDI, MDI-X) Either TCP, SSL or TLS protocol
Communication	Ethernet, RS485, RS422, USB, Wi-Fi and 4G options
Inputs/outputs	Wiegand In & Out (customizable up to 512 bits), Door Relay, 3 GPI (including Door monitoring), 3 GPO

Tamper type

Opening tamper	Yes

Operation

Stand-alone	Yes
Stand-alone no. of users	10,000
PIN keypad	Yes
Maximum hand speed	0.5 m/s (19.7 in/sec)
Internal storage capacity	16GB Flash, 2GB RAM
Internal storage capacity	10,000 user records (2*4 fingers each) for 1:N identification
Internal storage capacity	250,000 IDs in authorized user list
Internal storage capacity	1 Million transaction logs
CPU	NXP AMR Cortex A53 Quad core, 1,8 GHz
Loudspeaker & microphone	Intercom function, Audio & video player
Touchless fingerprint sensor	Hand presence detection QR code scanning capability

Support

Language installation manual	English

Electrical

Power supply type	VDC
Power supply value	12 to 24 VDC Power over Ethernet with PoE+ switches
Current consumption	2.5 A min. @ 12 VDC

Physical

Physical dimensions	250 x 152 x 216 mm
Net weight	2200 g
Shipping weight	3000 g
Colour	Silver
Material	Polycarbonate
Form factor	Oversized
Mounting type	Desk mount, Surface mount, Wall mount

Environmental

Vandal proof	No
Environment	Indoor, Outdoor
Storage temperature	-10 to +55°C
Relative humidity	10 to 80% noncondensing
IP rating	IP65 Recommendation for outdoor installation: avoid direct exposure of sensor to rain (e.g., place under a canopy)

Regulatory

Compliancy	CE, FCC, FCC Part 15 Class A, REACH, RoHS, WEEE

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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