# SMA-MWC-SP-MDPI-M

**MorphoWave™ SP, 4 finger ‘on the fly’ reader, Bio/Card/PIN/BioPIN (10K users) Mifare/Mifare DESFire EV1/Proximity/HID iCLASS/iCLASS SEOS, HID Mobile, 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

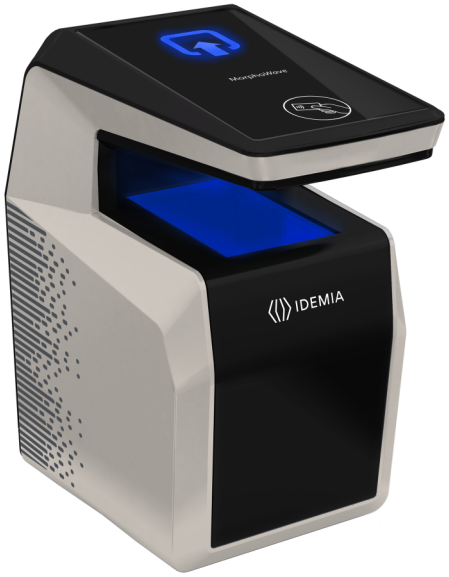
MorphoWave™ XP natively supports Prox, iCLASS, HID Mobile, MIFARE, DESFire EV1 cards and PIN code, in addition to biometrics. It is also capable of scanning QR codes for visitor management. HID Mobile is supported through the HID Origo portal.

## 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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## MorphoWave™ SP, 4 finger ‘on the fly’ reader, Bio/Card/PIN/BioPIN (10K users) Mifare/Mifare DESFire EV1/Proximity/HID iCLASS/iCLASS SEOS, HID Mobile, IP65

## Technical specifications

### System

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

### Technology

| | |
|---|---|
| Reader type | BioMetric, Smart Card |
| Model type | MorphoWave™ SP<br>with HID Mobile support |
| Reader operating-transmitting frequency | 125 KHz, 13.56 MHz |
| Supported technology 13.56 MHz | HID iClass, iCLASS (CSN), iCLASS SEOS, MIFARE Classic (CSN), MIFARE DESFire (CSN), MIFARE DESFire EV1 (CSN), MIFARE DESFire EV1 (custom data), Mifare DESFire EV2 (CSN) |
| Supported technology 125 kHz | HID Prox |
| Supported technology 2.4 GHz | Mobile enabled |
| 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,<br>2GB RAM |
| Internal storage capacity | 10,000 user records (2*4 fingers each)<br>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<br>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<br>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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