

# OMNI ARCH READERS

## RFID, NFC and Bluetooth® Access Control

Introducing the Honeywell Omni Arch series of access control readers, created in partnership with STiD, which combine secure RFID, NFC (HCE) and Bluetooth® readers into one sleek and attractive modular solution with both flexibility and simplicity.

### MODULAR AND SCALABLE

Intuitive and dynamic, the Omni Arch reader solution contains six interchangeable modules based on an intelligent RFID core (Bluetooth optional) to which various interchangeable modules are connected: card reader, keypad, 1D and 2D code reader (QR Code) or 125 KHz reader to facilitate technological migrations. This easy and cost-saving modular approach provides the ability to upgrade all the features and security levels of your inventory of readers and manages access points security autonomously while helping optimize inventory by reducing the number of parts needed by up to 40 %.



Omni Arch readers with low-frequency prox module. Prox module can be purchased separately



Omni Arch Readers with QR Code reader module. QR Code module can be purchased separately



Omni Arch base high-frequency readers

# Omni Arch Readers Technical Specifications

## FLEXIBLE AND UPGRADEABLE CONFIGURATIONS

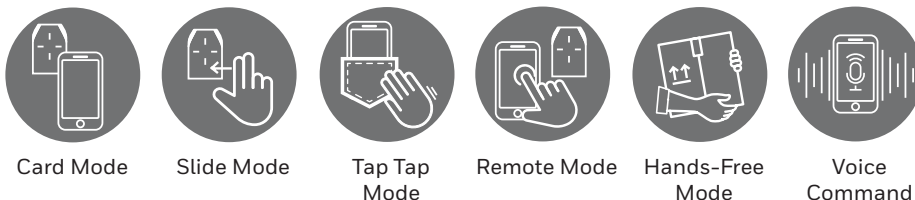
### 15 possible configurations

1 unique RFID\* core, 3 interchangeable facades, 1 biometric sensor, one 1D & 2D code reader (QR Code)\*\* and two 125 kHz module\*\*



\*Optional Bluetooth \*\*, \*\*MIFARE® & Bluetooth \*\* versions

With the Bluetooth® option, choose your identification modes to make access controls both secure and much more instinctive.



## STYLISH, ELEGANT AND CUSTOMIZABLE UPGRADES

- Clean, pure lines to fit into any décor.
- Elegant day or night with inset, multi-colored, high-intensity LEDs
- Customizable options to tailor readers to a specific decor



Customizable skins and LED lights



Casing colors to match your corporate decor

- Easy-to-manage extensions, upgrades and technology migrations
- Readers available in the following versions:
  - MIFARE®: Classic™ EV1, Ultralight™, Plus™ & Plus™ EV1, DESFire® 256, EV1, EV2 & EV3, NFC (HCE)
  - iClass™\*\* (CSN), Orange Pack ID, Bluetooth®, 125 kHz (EM, HID Proximity®)
  - Crosspoint®, AWID, IoProx, Indala® 27 bits depending on prox module)
  - Honeywell Quadrakey™
- ISO14443A / ISO15693 / LEGIC® RF Standard – read for LEGIC® Advant and Prime chips, CSN for all
- MIFARE® range, iClass™\*\*, PicoPass™ and Inside™ cards

# Omni Arch Readers Technical Specifications

**TABLE 1. READER SPECIFICATIONS**

| Feature                              | MIFARE® Version                                                                                                                                                                                                                                                                                                                                                             | Bluetooth® Version                            | LEGIC® Version                                                                                                                                                      |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency/standards        | 13.56 MHz – ISO14443 A & B, ISO18092 (NFC)<br>Bluetooth® (according version)                                                                                                                                                                                                                                                                                                |                                               | 13.56 MHz – ISO14443A,<br>ISO15693<br>LEGIC® RF Standard                                                                                                            |
| Chip compatibility                   | Cards RFID MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus® & Plus® EV1, MIFARE® DESFire® 256, EV1, EV2 & EV3, NFC (HCE), SMART MX, CPS3, iCLASS™** (CSN only), PicoPass® (CSN only)<br>STid Mobile ID® virtual cards (Bluetooth® version), Orange Pack ID                                                                                   |                                               | LEGIC® Advant & Prime / CSN<br>MIFARE® Ultralight® & Ultralight® C, Classic & Classic EV1, Plus® & Plus® EV1, DESFire® 256, EV1 & EV2, iCLASS™** PicoPass®, Inside® |
| Functions                            | Read-only CSN, secure (file, sector) or secure protocol (Secure Plus)<br>Secure read-write                                                                                                                                                                                                                                                                                  |                                               | Read-only CSN or secure (segment)<br>Secure read-write                                                                                                              |
| Communication interfaces & protocols | TTL clock and data (ISO2) or Wiegand (encrypted option - Sx1) output<br>RS-485 output (encrypted option - Sx3) with secure communication protocols SSCP V1 & V2; OSDP V1 (unencrypted communication) and V2 (SCP secure communication)<br>RS-232 output available in MIFARE® version only<br>EasySecure compatible interface/transparent interfaces in MIFARE® version only |                                               | TTL/RS-232: Clock and data (ISO2), Wiegand or RS-232 (SSCP protocol)<br>TTL/RS-485: Clock and data (ISO2), Wiegand or RS-485 (SSCP protocol)                        |
| Reading distances                    | Up to 8 cm [3.15 in] with a DESFire® EV2 card                                                                                                                                                                                                                                                                                                                               | Up to 8 cm [3.15 in] with a DESFire® EV2 card | Up to 8 cm [3.15 in] with a LEGIC® Prime card<br>Up to 6 cm [2.36 in] with a LEGIC® Advant card                                                                     |
| Secure EAL5+ storage                 | -                                                                                                                                                                                                                                                                                                                                                                           | Yes                                           | -                                                                                                                                                                   |
| Light indicators                     | 2 RGB LEDs – 360 colors; configuration by card (standard or virtual with STid settings application), software or external command (0 V) according to the interface                                                                                                                                                                                                          |                                               | 2 RGB LEDs – 360 colors<br>Software-configuration or External command (0 V)                                                                                         |
| Audio indicator                      | Internal buzzer with adjustable intensity<br>Configuration by card (standard or virtual with STid settings application), software or external command (0 V) according to the interface                                                                                                                                                                                      |                                               | Internal buzzer<br>Software-configuration or external command (0 V)                                                                                                 |
| Power requirement                    | Max. 130 mA/12 Vdc                                                                                                                                                                                                                                                                                                                                                          | Max. 130 mA/12 Vdc                            | Max. 130 mA/12 Vdc                                                                                                                                                  |
| Power supply                         | 7 Vdc to 28 Vdc                                                                                                                                                                                                                                                                                                                                                             | 7 Vdc to 28 Vdc                               | 7 Vdc to 28 Vdc                                                                                                                                                     |
| Connections                          | 10-pin plug-in connector (5 mm [0.2 in])<br>2-pin plug-in connector (5 mm [0.2 in]): O/F contact – tamper detection signal                                                                                                                                                                                                                                                  |                                               |                                                                                                                                                                     |
| Material                             | ABS-PC UL-V0 (black)/ASA-PC-UL-V0 UV (white)                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                                                                                                     |
| Dimensions (h x w x d)               | 107 mm x 80 mm x 26 mm [4.21 in x 3.15 in x 1.02 in]                                                                                                                                                                                                                                                                                                                        |                                               |                                                                                                                                                                     |
| Operating temperature                | - 30°C to 70°C [- 22°F to 158°F]; Humidity: 0 % to 95 %                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                                                                                                     |
| Tamper switch                        | Accelerometer-based tamper detection system with key deletion option (patented) and/or message to the controller                                                                                                                                                                                                                                                            |                                               |                                                                                                                                                                     |
| Resistance/protection                | IP65 level – weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation)<br>IK10 certified and reinforced vandal-proof structure                                                                                                                                                                                                                 |                                               |                                                                                                                                                                     |
| Mounting                             | Wall mount/flush mount (European & American); Compatible with any surfaces and metal walls                                                                                                                                                                                                                                                                                  |                                               |                                                                                                                                                                     |
| Certifications                       | CE (Europe), FCC (USA), IC (Canada) and UL                                                                                                                                                                                                                                                                                                                                  |                                               | CE (Europe)                                                                                                                                                         |

## Omni Arch Readers Technical Specifications

**TABLE 2. KEYPAD SPECIFICATIONS**

| Feature                | MIFARE® Version                                                                                                                                                                     | Bluetooth® Version | LEGIC® Version                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| Keypad                 | Capacitive touch keypad – 12 configurable backlit keys<br>Configuration by card (standard or virtual with STiD settings application) or software according to the interface         |                    | Capacitive touch keypad<br>12 configurable backlit keys, activated/deactivated by software |
| Dimensions (h x w x d) | 107mm x 80 mm x 26 mm [4.21 in x 3.15 in x 1.02 in]                                                                                                                                 |                    |                                                                                            |
| Operating temperature  | -30°C to 70°C [-22°F to 140°F] Humidity: 5 % to 90 %                                                                                                                                |                    |                                                                                            |
| Resistance/protection  | Weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation)<br>IK08 certified and reinforced vandal-proof structure/high-resistant laser marking of keys |                    |                                                                                            |

**TABLE 3. 125 KHZ PROX SPECIFICATIONS**

| Feature                | MIFARE® Version                                                                                                                                             | Bluetooth® Version | LEGIC® Version |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|
| 125 kHz card reader    | HONARCPROXMOD version:<br>EM42xx / EM4x50; Quadrakey®, HID Proximity®, Indala® (Wiegand 27 bits only); loProx®; AWID®                                       |                    |                |
| Dimensions (h x w x d) | 38,99 mm x 79,93 mm x 25,7 mm [1.49 in x 3.11 in x 0.98 in] (module only)                                                                                   |                    |                |
| Operating temperature  | -30°C to 70°C [-22°F to 158°F] Humidity: 0 % to 95 %                                                                                                        |                    |                |
| Resistance/protection  | IP65 level – weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation)<br>IK10 certified and reinforced vandal-proof structure |                    |                |

**TABLE 4. QR CODE FUNCTION/1D & 2D SPECIFICATIONS**

| Feature                  | MIFARE® Version                                                                                                                                             | Bluetooth® Version | LEGIC® Version |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|
| 1D& 2D code technologies | QR Code/Micro QR Code, Datamatrix, Aztec, Code 128                                                                                                          |                    |                |
| Dimensions (h x w x d)   | 62,42 mm x 80 mm x 35,74 mm [2.45 in x 3.14 in x 1.38 in] (module only)                                                                                     |                    |                |
| Operating temperature    | -30°C to 70°C [-22°F to 140°F] Humidity: 5 % to 90 %                                                                                                        |                    |                |
| Resistance/protection    | IP65 level – weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation)<br>IK08 certified and reinforced vandal-proof structure |                    |                |

**TABLE 5. ORDERING INFORMATION**

| MODEL NUMBER        | DESCRIPTION                                                     |
|---------------------|-----------------------------------------------------------------|
| HONARC1             | ARC1S, Mullion Reader, 13.56, BLE, OSDP, 3 m cable, Empty Key   |
| HONARCA             | ARCA, Standard Reader, 13.56, BLE, OSDP, Empty Key              |
| HONARCB             | ARCB, Keypad Reader, 13.56, BLE, KP, OSDP, Empty Key            |
| HONARCAPW           | ARCA+125mod, 13.56, BLE, QK, Wiegand, Empty Key                 |
| HONARCBPW           | ARCB+125mod, 13.56, BLE, KP, QK, Wiegand, Empty Key             |
| HONARC1W            | ARC1S/BT Mullion Reader, Wiegand, 3 m cable, Empty Key          |
| HONARCPROXMOD       | 125 kHz Multi-technology module for OmniArch Reader             |
| HONARCQRBCMOD       | QR Code/Barcode Module for OmniArch Reader                      |
| HONARCS-ENCODER     | Reader/Encoder, BLE                                             |
| HONARCS-ENCODER-HON | Reader/Encoder, BLE Honeywell Key                               |
| HONARCAPHON         | ARCA+125mod, 13.56, BLE, QK, OSDP, Honeywell DESfire Key        |
| HONARCAQHON         | ARCA+QRmod, 13.56, BLE, OSDP, Honeywell DESfire Key             |
| HONARCAHON          | ARCA, 13.56, BLE, OSDP, Honeywell DESfire Key                   |
| HONARCAPWHON        | ARCA+125mod, 13.56, BLE, QK, Wiegand, Honeywell DESfire Key     |
| HONARCAQWHON        | ARCA+QRmod, 13.56, BLE, Wiegand, Honeywell DESfire Key          |
| HONARCAWHON         | ARCA, 13.56, BLE, Wiegand, Honeywell DESfire Key                |
| HONARCBHON          | ARCB, 13.56, BLE, KP, OSDP, Honeywell DESfire Key               |
| HONARCBPWHON        | ARCB+125mod, 13.56, BLE, KP, QK, Wiegand, Honeywell DESfire Key |
| HONARCBWHON         | ARCB, 13.56, BLE, KP, Wiegand, Honeywell DESfire Key            |
| HONARC1HON          | ARC1S/BT Mullion Reader, OSDP, 3 m cable, Honeywell DESfire Key |
| HONARCAHON          | ARCS-A/BT – Standard Reader – OSDP, Honeywell DESfire Key       |
| HONARCBHON          | ARCB, 13.56, BLE, KP, OSDP, Honeywell DESfire Key               |
| HONARCMOB2499       | Honeywell Blue Mobile Key 10-2499                               |
| HONARCMOB12499      | Honeywell Blue Mobile Key 2500-12499                            |
| HONARCMOB125k+      | Honeywell Blue Mobile Key 125000+                               |
| HONARC-USB-485-CBL  | USB to RS-485 Converter for HONARC                              |
| HONARCB_RAINCOVER   | Rain Cover for Keypad Reader                                    |
| HONARCA-SHIELD      | SHIELD ARC-A                                                    |
| HONARC1-SHIELD      | SHIELD for ARC1 Reader                                          |
| HONARC1-TBLOCK      | TBLOCK_ARC1                                                     |
| HONARC1-SPACER      | ARC1 Stackable Spacer                                           |
| HONARCA/B-SPACER    | ARC Stackable Spacer, Black                                     |

**For more information**

[www.security.honeywell.com/uk](http://www.security.honeywell.com/uk)

[www.security.honeywell.com/me](http://www.security.honeywell.com/me)

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