

Cypress Handheld Reader System

with OSDP Secure Channel wireless communication



The Handheld Reader communicates with the Base Unit over an encrypted wireless connection, using SIA's OSDP protocol with Secure Channel. The Base Unit connects to the access controller similar to a standard Wiegand reader; the access control panel validates the credentials.

Features:

- HHR Reader displays Access Granted or Access Denied responses after reading credentials (LEDs, buzzer, and vibrate)
- HHR reader can switch between IN and OUT modes with buttons on the face of the reader
- Vend Button on the HHR Reader controls a relay output on the Base Unit for duress alarms or manual door/gate control
- Credential data is not stored by the HHR Reader or the Base Unit; the HHR system is connected to the access controller's live database of credentials
- Kits include HHR Reader(s), Base Unit, Charging Dock(s), and wall-plug Charger(s)

| Kit Part Numbers | |
|-------------------------|--|
| 1-Reader, Dual-lane kit | HHR-4156-GY (UPC: 816684002441), HHR-4156-WH (UPC: 816684002458) |
| 2-Reader, Dual-lane kit | HHR-4256-GY (UPC: 816684002700), HHR-4256-WH (UPC: 816684002717) |
| 3-Reader, Dual-lane kit | HHR-4356-GY (UPC: 816684002724), HHR-4356-WH (UPC: 816684002731) |

HHR-4000_Dual_DS_210920

| Specifications | | | |
|-------------------------|--|--|--|
| Kit Contents | HHR-4156-GY | | HHR-8056-GY, HHR-8400, HHR-DOCK-GY, HHR-RCHL |
| | HHR-4156-WH | | HHR-8056-WH, HHR-8400, HHR-DOCK-WH. HHR-RCHL |
| | HHR-4256-GY | | HHR-8056-GY x2, HHR-8400, HHR-DOCK-GY x2, HHR-RCHL x2 |
| | HHR-4256-WH | | HHR-8056-WH x2, HHR-8400, HHR-DOCK-WH x2, HHR-RCHL x2 |
| | HHR-4356-GY | | HHR-8056-GY x3, HHR-8400, HHR-DOCK-GY x2, HHR-RCHL x2 |
| | HHR-4356-WH | | HHR-8056-WH x3, HHR-8400, HHR-DOCK-WH x2, HHR-RCHL x2 |
| Individual Part Numbers | Reader - Dual-lane | | HHR-8056-GY (UPC: 816684002632), HHR-8056-WH (UPC: 816684002649) |
| | Base - Dual-lane | | HHR-8400 (UPC: 816684002489) |
| | Dock | | HHR-DOCK-GY (UPC: 816684001291), HHR-DOCK-WH (UPC: 816684001307) |
| | Charger | | HHR-RCHL (UPC: 816684001284) |
| Physical | Handheld Reader | | 6.81" x 3.63" x 1.58" (17.30 x 9.22 x 4.01 cm) / 1.2 lbs (0.54 kg) |
| | Charging Dock | | 4.76" x 4.1" x 2.2" (12.09 x 10.41 x 5.59 cm) / 0.35 lbs (0.16 kg) |
| | Base Unit | | 9.25" x 7.0" x 2.25" (23.50 x 17.78 x 5.72 cm) / 1.3 lbs (0.59 kg) |
| Environmental | Temperature Range | | -17 to 54 C |
| | HHR Reader | | Weatherproof Enclosure - ASA+PC-FR - IP65 |
| | HHR Base Unit | | Weatherproof Enclosure - Polycarbonate (PC) - IP65 |
| Electrical | Base Unit Supply Voltage | | 8-16Vdc Current 600mA |
| | Handheld Reader Internal | | 7.4V 3800mAh Rechargeable (not field-serviceable) |
| | Charging Dock | | Input: 100-240 Vac, 1A, 50/60Hz Max |
| | Relays | Max Switching | 220Vdc 30W (resistive) 1A / 250Vac 37.5VA 1A |
| | | Running Spec with load | 30Vdc 1A (resistive) / 125 Vac 0.3A (resistive), 1x10 ⁵ operations @ 20°C |
| Credential Technologies | HID Prox, EM4102, AWID Prox; ISO14443A/B ISO15693, FeliCa™ (IDm); MIFARE Classic®, MIFARE DESFire® 0.6, MIFARE DESFire® EV1 (32 bit CSN), HID: iCLASS® Standard/SE/SR/Seos; PIV II, Secure Identity Object® (SIO®) | | |
| Radio | Wireless Physical Layer | | IEEE 802.15.4 |
| | Frequency | | 2.4 GHz ISM Band |
| | Type | | Direct Sequence Spread Spectrum (DSSS) |
| | Transmit Power | | 15 dBm |
| | Receiver Sensitivity | | -103 dBm (1% PER, 250Kbps) |
| | Modulation | | O-QPSK |
| | Agency Approvals | FCC Part 15.247: FCC ID: U90-SM220 | |
| | | Industry Canada (IC): 7084A-SM220 | |
| | | CE Certified: Certified to EN300 328 Version 1.8.1 | |
| | Security Encryption | | OSDP v2.2 with Secure Channel Encryption (IEC 60839-11-5) |
| Wireless range | Indoor | 150 feet* (45 meters*) typical range | |
| | Outdoor | 500 feet* (150 meters*) typical range | |
| | *Note: Distances are typical line-of-sight. Actual distance may vary depending upon terrain, RF environment, building | | |
| Additional Features | Vend button controls a relay for functions such as operating gates or possible duress notification. | | |
| | Handheld Reader's gate-selection feature can be used for ingress and egress lanes or gates. | | |