

PRODUCT SPECIFICATIONS

P/N900H0010K

Mobile Gate™ Wireless Reader with Biometric
For Physical Access Control



Biometric Fingerprint Reader

Sensor technology CMOS active capacitance
Image Area 18.0 mm high X 12.8 mm wide
Grayscale Full 8-bit
FIPS 201 compliant YES
ESD protection IEC 61000-4-2 level 4 +/- 15KV
Extraction & Verification Time ~1 second
Allowable Finger Rotation +/- 180°

Biometric Image Processing

Image processing and Matching Cogent SecurASIC
Image resolution 508 DPI
Image size 256 x 360 pixels
ANSI 381 image format YES
Image processing and Matching Cogent SecurASIC
FRR 0.1% - 0.001%
FAR 0.01% - 0.001%

Card and Card Formats

Veridt Multimode reads GSC-IS compliant containers, PIV & PIV I, TWIC, CAC & CAC-PIV cards and any data model based on MIFARE®, DESfire® or ISO 1443A or B cards. 125 KHz Prox optionally available.

Operation

Multi-factor Authentication: Configurable for Card only, Card + PIN, Card + Biometric, Card + PIN+ Biometric authentication modes.

TWIC, FIPS201 & SP800-116: Validating cards when they are presented to the reader at an access point is necessary, per the guidance in NIST SP800-116, to check that the card is not counterfeit, cloned, or copied, lost or stolen. NIST FIPS-201 and SP 800-116 define authentication mechanisms (CHUID, CAK, PKI, and BIO) and their application one or more at a time for increasing levels of authentication for access to uncontrolled, controlled, limited, and exclusion areas.

Multi-mode operation: easily programmed to dynamically recognize multiple card formats for legacy, local and government requirements.

Card Readers

Contactless Smart Card Read Interface

ISO 14443-A, B

- Card Read Range: to 1.0 in. (2.5 cm)
125 KHz prox technology (optionally available)

Keypad

12 Key, 3X4 sealed pad

User Transaction Memory

The number of records that a queue holds depends on record size.

The main User queue typically holds at least 8,000 transaction records.

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Docking Station with battery charger



Base Station
mounted at PACS panel

Digital Interface Signals

Wiegand serial data output: Configurable to 256-bits; 50 mA maximum output current drive (output low).

Wireless Interface Signals

Electrical Specifications:

Supply Voltage 8-24VDC

Current 500mA

Radio Specifications:

Frequency 900 MHz ISM band

Type Frequency Hopping Spread Spectrum

Transmit Power 100mW

Receive Sensitivity -110 dBm

Interference Rejection 70dB

Battery Operation

High quality 11.1 V Li-Ion rechargeable battery.

Voltage: 11.1V (working); 12.6V (peak); 7.5V (cut-off)

Current: 2200 mAh (24.4 wh).

Protection Circuits:

5A circuit installed with the battery pack and protects the battery from:

Overcharge (>12.6V)

Over discharge (< 7.5 V)

Over drain (> 5 Amp)

Short circuits

A poly-switch installed to limit maximum discharging current at 4.2A and to protect against incorrect polarity.

Environmental

Performance Testing: Rain, Dust, Variable Ambient, Corrosion, UV Light and Water Exposure, Accelerated Aging for Gaskets, Sealing Compounds and Adhesives.

Operating temperature: -15°C to 66°C (5°F to 151°F)

Humidity: 5% to 100% (non-condensing)

Operating altitude: 0 to 3048 m (0 to 10,000 ft)

Radio frequency: 13.56 MHz

Tamper resistant: Tamper resistant .

Power: 8 to 16 VDC, 250 mA

Mechanical

Width: 11.43 cm (4.50 in)

Height: 21.59 cm (8.50 in)

Depth: 4.45 cm (1.75 in)

Weight: Less than 1.0 kg (2.2 lb)

Standards

The Reader meets or exceeds the following standards:

FCC Title 47 CFR, Part 15 Class B

CE – EMC 93/68/EEC, 91/32/EEC, and 93/68/EEC

Low-Voltage Directive 73/23/EEC and 93/68/EEC

Low-Voltage Directive 73/23/EEC and 93/68/EEC

For more information, go to www.veridt.com or contact: sales@veridt.com .

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