

PRODUCT SPECIFICATIONS

P/N900W1050

MultiMode Credential Reader with Dual Card Interface
For PIV, CAC, TWIC and Hybrid Card Applications



MultiMode-S™ Low Cost High Performance Two Factor Credential Reader Solution. Contactless and Contact Card Read Interfaces with Keypad.

Credentials: Supports PIV, PIV-I, TWIC, FRAC and CAC (legacy, NG, EP), any data model based on MIFARE®, DESfire®, ISO 1443A/B, and ISO 7816.

Multi-factor Authentication: configurable in both contact and contactless card read mode for Card only or Card + PIN.

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

Compatible with all PACS solutions: multiple hardware interfaces provide for Wiegand and RS-485 communications protocols for complete flexibility.

Compatible with third party applications for upgrading PACS to HSPD-12 compliance. Interfaces to hardware/software modules containing the functionality required by FIPS-201, Special Publication 800-116 and the TWIC Reader Specification.

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Intuitive Design for Simplified Operation in a Multi-format Reader



Reader Idle:
 Blue Chevron illuminated
 indicating contact
 card interface
 requesting card.



Reader Idle:
 Blue Chevron illuminated
 indicating
 contactless card
 interface
 requesting card.



Reader Idle:
 Blue Chevron illuminated
 indicating contact
 card interface
 requesting card.
 Insert card.



Card presented
 at contactless
 card interface.
 Blue Chevron
 flashing
 indicating
 contactless card
 interface reading
 card.



Card Inserted
 Blue Chevron
 flashing while
 reading card.



Green Chevron
 flashing
 indicating access
 granted.



Green Chevron
 flashing
 indicating access
 granted.



When PIN is
 requested
 keypad
 illuminates while
 PIN is entered.

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Card and Card Formats

Reads GSC-IS compliant containers, PIV&PIV I, TWIC, CAC cards and any data model based on MIFARE®, DESfire® or ISO 1443A/B cards, and ISO 7816.

Operation

Multi-factor Authentication: configurable in both contact and contactless card read mode for Card only or Card + PIN.

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

Hardware-Card Readers

Contactless Smart Card Read Interface

ISO 14443-A, B

Card Read Range: to 1.0 in. (2.5 cm)

Contact Card Read Interface

ISO 7816 compatible

Hardware-Keypad

12 Key, 3X4 sealed illuminating keypad.

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.

Communications interface

Serial port: Available RS-485 half duplex (two wire), RS-485 (full duplex (four wire-twisted pair). Specify when ordering. *RS-485:* 38400 baud, maximum of 32 devices on each RS-485 network, recommended maximum cable length is 1220 m (about 4000 ft.).

Wiegand Output: Software configurable to 512-bits; 50 mA maximum output current drive (output low).

Electrical

Wiring types: 2 pair, stranded, twisted, overall shield for RS-485, RS-232 and Wiegand

Wiring Distance: Refer to controller specifications. Status Indicators: LED and Digital Display

for Card Reader and Biometrics Annunciation: Audible, single tone feedback for status reporting.

Environmental

Operating temperature: -20°C to 70°C (-40°F to 158°F)

Humidity: 0% to 100% (condensing)

Operating altitude: 0 to 3,048 m (0 to 10,000 ft.)

Radio frequency: 13.56 MHz

Tamper resistant: Tamper resistant mounting and detection.

Power: 9 to 16 VDC, less than 500mA max@12V

Housing: Protection Classification 65 (IP65)

Sealed against dust and protected against water jet.

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