

# 1-Factor Authenticating Readers

Contactless, Contact or Dual Interface

Selectable Wiegand or OSDP

## Generational.

Card technology is transforming. Whether you are Government or small business, you need Readers that can read multiple card types - especially PIV - electronically authenticate the card and be forward compatible to OSDP.



### Core Features

- Reads all PIV, CAC, TWIC, PIV-I and PACSID™
- On-board CAK challenge-response verifies certificate private key and digital signature of public key certificate on CAC, PIV, PIV-I, PKPACS and PACSID Cards.
- Best-in-industry contactless read range, speed and error reduction.
- Contact-only model is ideal for areas that may be sensitive to nearby “data sniffing.”
- Contact interface provides redundancy for failed contactless antenna.
- Supports OSDP Version 2.2 Secure Channel and Transparent Mode ADPU protocol.
- Firmware can be remotely reflashed & reconfigured via OSDP or locally at Reader.
- High-visibility Red, Green and Yellow LEDs
- All IDFACTORS Readers are shipped pre-configured for plug-and-play installation.

### Optional Functionality

- FIPS-201 Crypto-accelerator for FICAM supports RSA-1024 & 2048, SHA-1, SHA-2, AES 128 & 256, 3DES and RNG
- Dual-technology: 125khz Prox module
- Side-mounted mag-swipe reader is available on a special-order basis (contact factory for quotation)

### Using PKI to authenticate a PIV

All IDFACTORS Readers include native RSA PK challenge-response and signature verification, enabling them to authenticate that the Digital Certificate on PIV Card is genuine.

Part Numbers					
		Standard Part Number	With 125 KHz Prox Module	With FIPS-140 Cryptomodule	With Prox and Cryptomodule
Contact Only	Wiegand	74-01-1001	N/A	74-01-1001-XC	N/A
Contact Only	OSDP	74-12-1001	N/A	74-12-1001-XC	N/A
Contactless Only	Wiegand	74-01-3001	74-01-3001-PX	74-01-3001-XC	74-01-3001-PC
Contactless Only	OSDP	74-12-3001	74-12-3001-PX	74-12-3001-XC	74-12-3001-PC
Dual Interface	Wiegand	74-01-2002	N/A	74-01-2002-XC	N/A
Dual Interface	OSDP	74-12-2002	N/A	74-12-2002-XC	N/A

## STANDARDS SUPPORTED

- ISO 7816-3 Contact Card-to-Reader Interface
- ISO 14443 Contactless Card-to-Reader Interface
- NIST 800-73 PIV Interfaces
- NIST 800-76 Biometric Data for PIV (where applicable)
- NIST 800-96 Cryptographic Algorithms
- NIST 800-116 (PACS Guidance)

## CREDENTIAL SUPPORT

- CAC, PIV, PIV-I, TWIC,, PKPACS, PACSID

## LOGICAL & CARD READ PERFORMANCE

- T=0, T=1 Contact Smart Card Interface
- Type A and Type B Contactless Transmission Protocols
- Supports Collision Detection (Multiple Cards in Field)
- Contactless Read Range: 95%+ at 2.0 inches (5 cm)
- Maximum Read Range: less than 4 inches (10 cm)
- Transmission Bit Rates 106, 212 and 424 Kbits per sec.

## WIEGAND SUPPORT

- FASCN support for PIV cards
- GUID for PIV-I, TWIC, PKPACS & PACSID credentials
- Legacy ID from Prox or Mifare on PKPACS or PACSID

## OSDP SUPPORT

- SIA OSDP Version 2.2 Secure Channel and Transparent Mode ADPU protocol

## READER I/O

- Red, Yellow & Green LEDs (High Visibility)
- Audible Speaker
- USB-C Configuration Port – PIN Protection Included

## PKI SUPPORT

- All Re-2048, ECC P-256, ECC P-384, SHA-1, SHA-256, SHA-384
- Optional FIPS-140 crypto module performs the cryptographic functions approximately 30% faster
- aders support native RSA-1024, 2048, AES 3DES, RSA-4096, Random Number Generation and Certificate Signature Validation
- Optional FIPS-140 crypto accelerator module supports high speed RSA

## ELECTRICAL SIGNAL

- **Access System Input:**  
Terminal Block or RJ-45 Connector  
Input Power: 12 Volt DC
- **Access System Outputs:**  
48-bit to 200-bit Wiegand, RS 485, Mag Stripe, OSDP

## PHYSICAL

- High impact weather resistant polycarbonate with TFE
- Reader Dimensions: 6.50" high x 4.50" wide x 2.75" deep
- Smart Card Connector rated to 500,000 Insertions (includes Shutter to protect against rain and debris)

## SYSTEM INTEGRATION

- PSG Global, LenelS2, Access Nsite, Honeywell/Vindicator,
- AMAG/KABA/Hirsch/Galaxy, JCI/Software House
- Schneider/Andover Controls, Sielox

## ENVIRONMENTAL

- Indoor or Outdoor.
- -25° F to + 125° F (-32° C to + 66° C)
- 95% relative humidity (non-condensing)

## WARRANTY

- With Contact Interface: 15 Months from Date of Purchase
- Contactless Only: 36 Months from Date of Purchase

## TECHNICAL SUPPORT

- 510-346-1510; 08:00 to 17:00 Pacific Time M-F
- On-line [www.idfactors.com/install](http://www.idfactors.com/install)

**PACSID™** is a PIV-based open standard card designed for businesses who want to control their certificate and have multiple-source options. Learn more at [www.idfactors.com/card](http://www.idfactors.com/card)

