

2-Factor Authenticating Readers

Contactless, Contact or Dual Interface with PIN 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) and electronically authenticate the card plus be forward compatible to OSDP.



Core Features

- Reads all PIV, CAC, TWIC, PIV-I and PACSID™
- 2-Factor Contact interface per FIPS-201 and FICAM requirement for high security PAK
- 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 and time plus error reduction.
- Contact-only model is ideal for areas that may be sensitive to nearby “data sniffing.”
- Supports PIN to Card (PIV) and Pin to Panel
- Contact Card Acceptor rated at 500,000 insertions and with articulating shutter to block foreign debris and moisture
- 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.
- FICAM approval with PSG and LenelS2 OnGuard (pending)

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 + PIN	Wiegand	74-01-1002	N/A	74-01-1002-XC	N/A
Contact + PIN	OSDP	74-12-1002	N/A	74-12-1002-XC	N/A
Contactless + PIN	Wiegand	74-01-3002	74-01-3002-PX	74-01-3002-XC	74-01-3002-PC
Contactless + PIN	OSDP	74-12-3002	74-12-3002-PX	74-12-3002-XC	74-12-3002-PC
Dual Interface + PIN	Wiegand	74-01-2003	N/A	74-01-2003-XC	N/A
Dual Interface + PIN	OSDP	74-12-2003	N/A	74-12-2003-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

- 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

- Readers support native RSA-1024, 2048, AES 128 & 256, 3DES, RSA-4096, RNG and Certificate Signature Validation
- Optional FIPS-140 crypto accelerator module reduces time by 30% (card dependent)

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

