



ETHOS™ PKI READERS

Readers for Public Key Infrastructure (PKI) support Personal and Commercial Identity Verification (PIV/CIV)

WaveLynx Technologies' line of contactless Ethos PKI Readers offer a modern aesthetic and a state-of-the-art feature set. They are designed for FIPS 201-2 identification validation in programs such as GSA/FICAM. This line of readers is fully compliant with the SIA OSDPTM protocol for validation of PKI based Smart Cards (PIV, PIV-I, CIV, TWIC, CAC). The Ethos PKI line of readers is available in mullion or single gang mounting options, a backlit metal keypad for durable multi-factor authentication and low frequency proximity credential compatibility to support environments that are transitioning from Proximity to PKI.

Ethos PKI readers are designed for Open Supervised Device Protocol (OSDP), but can accommodate Wiegand panel communications as well to support a seamless transition from other credential technologies to PIV. Equipped with our patented OSDP Auto-detect feature these readers enable an extremely cost-effective transition. OSDP Secure Channel functionality is plug and play when connecting the reader to an OSDP compliant access control panel providing encrypted communication with the host. OSDP secure file transfer* functionality ensures remote updates of the readers for disabling proximity card support upon completion of transition or remote firmware updates when necessary.

*NOTE: The connected access control panel must support Remote File Transfer. If not, proximity can be disabled using a Local File Transfer is accomplished with an Android App communicating over BLE, provided by WaveLynx Technologies.

Highly optimized designs require no reader calibration or tuning and provide short transaction times for an excellent user experience.



Keypad ET25



Single Gang ET20






Mullion ET10



KEY FEATURES

- Compliant to NIST SP-800-116
- OSDP Compliant to IEC CDV 60839-11-5:2018
- OSDP Secure Channel and remote firmware upgradability
- Supports CHUID identification and forwarding
- Credential verification mode per OSDP specification
- Reads FIPS 201 type of smart cards
- Accelerometer-based tamper detection
- Tri-state LED light bar (red, green, amber) and audible beeper
- Robust metal wall mounting plate
- IP65 rated to accommodate indoor, outdoor installation environments

TECHNICAL SPECIFICATIONS

			
FEATURES	Mullion	Single Gang	Keypad
RF Technologies 13.56 MHz 125 kHz & 13.56 MHz	Part Number ET10-2WS-CPV1 ET10-3WS-CPV1	Part Number ET20-2WS-CPV1 ET20-3WS-CPV1	Part Number ET25-2WS-CPV1 ET25-3WS-CPV1
Firmware Revision	Ethos 2.4.2.0 or later with PIV configuration		
Current	106 mA average, 144 mA peak	118 mA average, 169 mA peak	143 mA average, 193 mA peak
Voltage	5-16 V DC		
Electrical Connections Red Black Green White	Power In GND Data0/RS485A Data1/RS485B		
Connection Type	24" Pigtail		
Temperature Range	UL™ Tested -35° to 66°C and EN -40° to 70°C and 95% humidity		
Dimensions	5.1" x 1.7" x 0.71"	5.1" x 3.25" x 0.71"	
Card Support	FIPS 201 cards including: PIV, PIV-I, CAC, CIV, and TWIC Handles structured data transfer required for smart card operations allows for use in Federal Identity, Credential and Access Management and Personal Identity Verification environments.		
Read Range	Up to 1.5 inches		
Certifications	FCC, IC, CE, UL, EN302291, EN301489, EN300330, IP55, UL294, OSDP Verified		