Wiegand Interface Extender System

SecureLINX™ Wiegand Interface Extender System
Wiegand to IP Protocol Convertor

SecureLINX™ Wiegand Extender Product Advantage
The SecureLINX Wiegand Interface Extender system is designed to connect Access Control Card Readers, Door Locks, Gates and other remote devices which support the Wiegand protocol to a Panel or other Host computer at another location when it is not feasible to run cable.

Technical Solution Overview
There are two devices which makeup the solution; the Remote unit and Central unit. The Card Reader or other remote device is connected to the SecureLINX Remote unit. The Remote unit converts the data from a proprietary Wiegand data stream to a TCP/IP packet delivery protocol. It is connected to a SecureLINX Wireless Access Point/Client where it is then transmitted wirelessly to the intended destination. At that destination, the SecureLINX Wireless Access Point/Client is connected to the Central unit. The data is then converted back to the proprietary Wiegand data stream and connected to the Panel or Host computer.


The extender units can also be used in a stand-alone mode, not requiring the wireless component, when an existing network is already in place.

Security
When connected to a SecureLINX™ Wireless network, the network incorporates significant security measures for the privacy of the data. They feature WEP 64/128, WPA1, WPA2 encryption and ACL between nodes. MAC and IP level authentication is also supported.

SecureLINX™ nodes also support VLAN’s enabling the same physical infrastructure to have segmented traffic with secure Access Control.

Reliable Connections
The SecureLINX™ platform is a proven and reliable product that securely handles concurrent video, voice and data applications.

Auxiliary Relay Connections
Each unit includes relay connections to operate a Door Strike, Gate, or other locking hardware. Up to 4 Relays are supported on each Remote unit.

Highlights
- Connects Remote Readers/Gates/Doors
- Reads Badge Data From Most Readers
- Supports Wireless and Wired Networks
- Field Configurable Reader Formats
- Secure Connection
- Multifunction Status Indicators
- Door Strike, Gate and Locking H/W Relays
- Supports 7 Expansion Modules per Link
- Can Power Reader (Adjustable 6-50VDC)

PoE Powered and Can Power Reader
When connected to a SecureLINX Wireless unit with an available PoE Ethernet port, the system will receive it’s power and can provide power to the reader at the appropriate voltage from 6-50VDC. This minimizes installation time, decreases potential points of failure and increases project profitability.

Easy Installation
Each unit includes pluggable connectors for easy and time saving installation and maintenance. Multifunction LED status indicators are available to indicated Remote and Central unit communication and troubleshooting assistance.

Made in USA
RoHS
## SecureLINX Wiegand Interface Extender Specifications

### PHYSICAL

- **Enclosure**: NEMA 6 Rated Waterproof Die-Cast Aluminum - 10" x 7.1' x 2.25" - 40 oz.
- **Network Interface**: Weatherized 10/100 Base-T Ethernet (RJ45) port (Fully Supervised)
- **Connection**: Liquid-Tite Connector. Pluggable connectors w/ Screw down terminals
- **Mounting**: Mounting bracket for 1 '-2' pole or wall
- **Data I/O Interface**: Reader: Wiegand, MagStripe, F/2F, LED - 0 - 30V (Field Configurable)
- **Relays**: Max Switching: 220VDC 30W (Res.) 1A - 250VAC 37.5VA 1A
  - Running Spec/load: 30VDC 1A (Res) 1 x 105 operations at 20°C 125VAC .3A (Res) 1 x 105 operations at 20°C
- **LED Indicators**: Diagnostic LED - Central and Remote Units Communication & Power
- **Expansion**: Up to 7 expansion modules can be added per Remote unit

### ENVIRONMENT

- **Temperature Range**: -40°C to 80°C
- **Humidity**: 95% non-condensing
- **Regulatory Certifications**: FCC Part 15, RoHS

### POWER

- **Power Method**: Power over Ethernet (PoE) from SecureLINX AP (Typical) or Direct from power supply
- **DC Power Input**: 8-16VDC @ 500mA max
- **Power Connector**: Weatherized 10/100 Base-T Ethernet (RJ45) port
- **Power Consumption**: 4-8W
- **PoE Cat5 Max Cable Length**: 100 meters on 24 AWG STP Cat5 Cable
- **Optional Reader Power**: 6-50VDC - Preconfigured at Factory

### SECURITY/NETWORK FEATURES (When connected to a SecureLINX Wireless Device)

- **Modes**: Quiet and Setup
- **Authentication**: MAC and IP level
- **VLAN**: VLAN (802.1Q) Support

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![SecureLINX Central Unit](image)

![SecureLINX Remote Unit](image)

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**ONE YEAR PARTS & LABOR WARRANTY**

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