XPRESSFREEDOM

Ethernet to Wiegand

Interface with any access control system from any programming environment

- Sends standard D0/D1 Wiegand signal
- Detects open door signal (buzzer, magstripe, or clock/data)
- Standard ethernet connection to network
- Built-in encryption for secure device communication
- Configurable IP address/port or DHCP enabled
- Available SDK allows integration into third party systems

Standard Use Case

1. Read card with Handheld
2. Handheld wirelessly transmits badge data to XPressFreedom
3. XPressFreedom sends wiegand to access control panel
4. Access control panel returns pass/fail
5. Result is sent back to handheld device
6. Handheld displays result
7. Access is granted/denied by guard

Wireless Data Link

Ethernet

Wiegand Signals
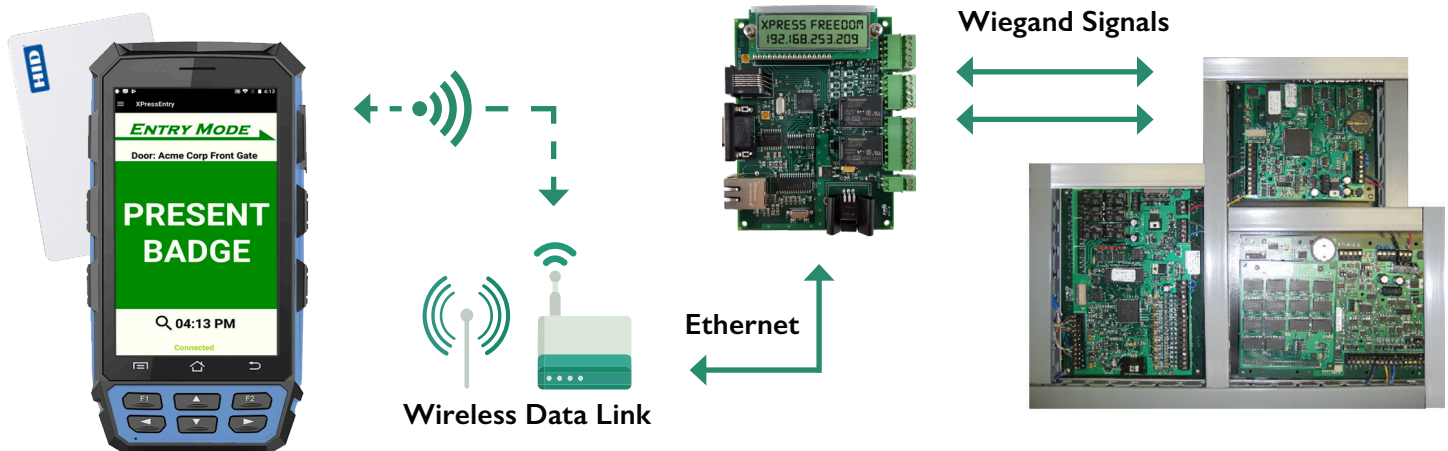
Specifications

Physical Dimensions:	OEM bare board measures 4.5'' x 4.3'' x 0.75'', 4.24 oz (0.12kg)
Power Supply:	DC input: 9-12 VDC, 350 mA
Operating Temperature:	32° to 150° F (0° to 65° C)
Operating Humidity:	10 to 85% Noncondensing
Network Connection:	10BaseT over CAT 5e, RJ45 connector
Wiegand Cabling:	Two pluggable screw terminal blocks (D0, D1, buzzer, LED, GND)
Relay Interfaces:	One relay sensor and two 12 VDC power relay (max 5 amps DC)
Communication Port:	One serial RS232 DB9 port, 19200 baud
Visual Indicators:	Two line 16 character LCD screen, 6 indicator LEDs
Server Mode:	Capable of storing 6,400 40-bit badge/card ID's
Configuration:	Easily configurable with provided configuration utility

Sample Access Panel Wiring Diagram