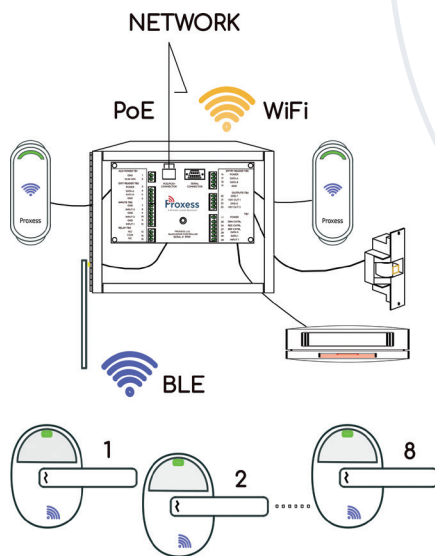


# Proxess BoxIQ

PoE+, WiFi,  
BLE Controller

For ProxessIQ® Software Only



**BoxIQ®** is a powerful and flexible controller that serves as *both* a conventional controller for wired access control doors as well as a wireless gateway/bridge which communicates *On-Demand* to electronic locksets to bring them “on-line”. BoxIQ also allows the user to issue control commands and further monitor access to high-security portals using the ProxessIQ software.

For communication reliability and optimal battery performance, Proxess® locksets may be connected to BoxIQ via Bluetooth Low Energy (BLE). To prevent wandering and lock-outs, Proxess locksets are assigned in the ProxessIQ software to a specific BoxIQ.

Proxess locksets may typically be located at distances of up to a 70-foot radius from the bridge (maximum of 100 feet) with potential reductions due to interference by walls, ceilings, floors, doors, and an abundance of other metal surfaces or equipment.









Our Network-on-Card credentials download transactions from and upload rights for the offline Proxess locksets which reduces the installation of traditional, expensive, hardwired doors.

An unlimited number of BoxIQ controllers may be added to any site or ProxessIQ system.

Controllers are simply and quickly added to the system, plugging directly into the facility’s existing PoE or PoE+ infrastructure and defined in the ProxessIQ software via static or DHCP addressing. This provides on-demand wake-ups for Lockdowns and Door-Open commands, as well as events from Locksets to the ProxessIQ software.

For those difficult to reach areas (e.g. gates, out-buildings), the BoxIQ controller also includes a WiFi communications backhaul where it would draw low voltage power from near the panel and is able to accommodate entry and exit readers.

# FEATURES

	Brings your Proxess locksets "Online" via Bluetooth
	Connect a PoE/PoE+ network cable or power with a transformer and use your existing WiFi
	Allows centralized Lockdown and Open Door commands to Proxess locksets
	Highest level security credentials using Mifare DESFire EV3™ and BLE (mobile phone)
	Credentials collect transactions from Proxess locksets. Security handshakes for verification.
	CONNECTIVITY - Built-in PoE/PoE+ and WiFi communication backbone leverages existing and common infrastructure and reduces installation costs. Add, move and configure doors in minutes, even from remote locations.
	ON-DEMAND - On-demand Lockdowns and Open Door commands to always-awake Proxess Locksets...also events and notifications from Proxess locksets to the Proxess software.
	NETWORK-ON-CARD - Our credentials go beyond just passing a number to the reader. They know where they belong and perform a handshake with the readers for ultimate security.
	EXPANSION - Unlimited BoxIQ controllers, doors and sites in a ProxessIQ system. Unlimited users and credentials.
	EFFICIENCY - Bluetooth Low Energy (BLE), with frequency hopping, ensures immediately available communication channels to locksets and maximum battery life. Each lockset is bound to specific Proxess Bridge gateways for stability and battery preservation.
	ENCRYPTION - Upstream and downstream communications utilize AES 128-bit encryption.

## HOW TO ORDER:

**Part Numbers:** BX-EN-POE Board with antenna and enclosure

**Compatibility:** Proxess RoxIQ bi-directional, read-write readers, via RS-485; Proxess electronic locksets, via Bluetooth Low Energy (BLE). For use within ProxessIQ software.

**Simple Anti-Passback:** Simplified anti-passback alternative. One checkbox forces cardholders to use a chokepoint reader for their credential reauthorization, programmable from one day to many years.

**Gateway Antenna:** Included BX-ANT1 BLE antenna to provides "on-demand" communications to up to eight (8) Proxess locksets.

**Electrical:** PoE\PoE+ Voltage Input: 36-57 VDC at .83A  
Current Consumption: 12-18 VDC, 200 mA

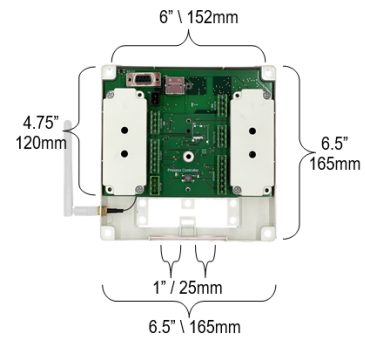
Door Contact Switch input  
Request to Exit (REX) input

Out 1 Voltage: 12 VDC  
Out 2 Voltage: 12 VDC  
Out 1 Current: 1A  
Out 2 Current: 1A

Out 3 1 Amp (12 VDC) Dry Contact

**Communications:** Communications:  
TCP/IP: Yes  
WiFi Backhaul (8.02.11): 100Mbps  
Bluetooth Low Energy (BLE): Yes  
Secure RS-485: Yes  
Bandwidth: 230Kbps  
DHCP Support: Yes, Default  
Static IP Support: Yes

## MEASUREMENTS



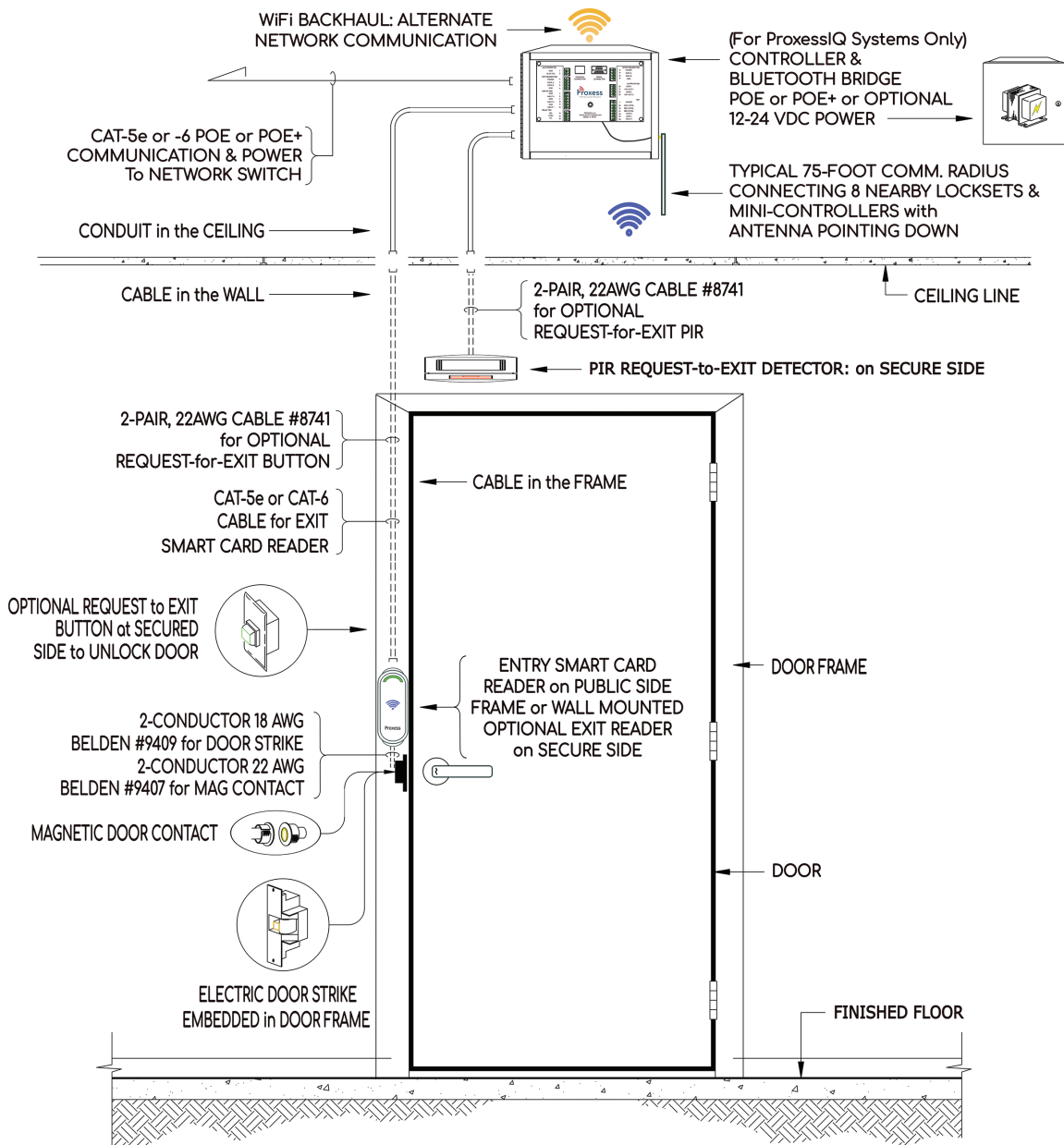
**System Specifications:** Controllers per System: Unlimited  
Time Schedules: Unlimited  
Access Profiles: Unlimited  
Credentials: 20,000 onboard and unlimited dynamic loading  
Data Retention: 30 days, Flash Storage  
Reader Communication: RS-485, Bi-directional  
Door Hold Open Time: 0-255 seconds  
Operating System: Linux, SOM On-board

**Features:** 2 x RS-485 readers (Entry & Exit)  
Input for Request-to-Exit: 1  
Input for Door Contact: 1  
Alarm Output: 1  
Enclosure Tamper Input: Yes  
Enclosure Knock-Outs: Yes, 2 x 1 inch

**Environment:** Operating Temperature: -20°C - +55°C, -20°F - +132°C  
Moisture Resistance: No-Provide Suitable Enclosure to Environment

**Hardware:** Network Cable Type: CAT-5/6, 2C, 22AWG, OS  
Reader Cable Type: CAT5e/CAT6a  
REX Cable Type: 4C, 22AWG, OS  
Door Contact Cable Type: 2C, 22AWG, OS  
Lock Release Cable Type: 2C, 18AWG  
RS-485 Cable Output Type: 4C, 22AWG, OS

# SAMPLE DOOR DEVICE LAYOUT AND CONNECTIVITY



- Proxess has a library of door drawings. Contact Proxess for specific door drawings required for your design project.
- Contact Proxess if dealer requires help in sourcing auxiliary hardware products for Mini-Controller doors such as panic devices, electric strikes, magnetic locks or narrow-rail, storefront door locks & exit handles/paddles.