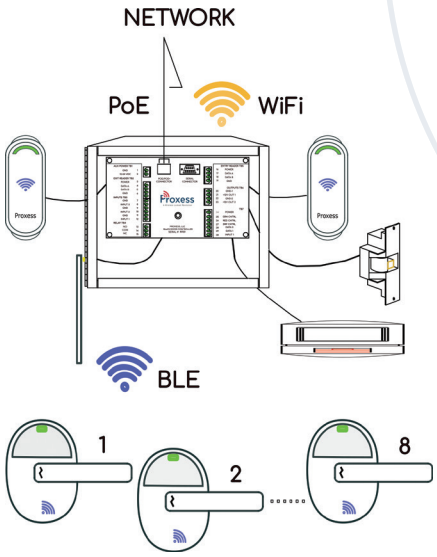
Proxess

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). 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 and an abundance of other metal surfaces or equipment.

Our Network-on-Card credentials download transactions 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 “On-Demand” 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 EV2™ 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.

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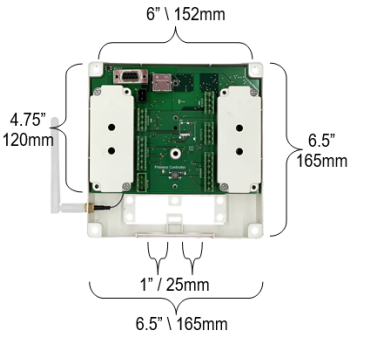
SYSTEM

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:	Optional BX-ANT1 BLE antenna to provide “on-demand” communications to up to eight (8) Proxess locksets.
Electrical:	PoE\PoE+ Voltage Input: 36-57 VDC at Line Voltage Input: .83A Current Consumption: 12-18 VDC, 200 mA Door Contact Switch Request to Exit (REX) Out 1 Voltage: 12 VDC Out 2 Voltage: 12 VDC Out 1 Current: 1A Out 2 Current: 1A Out 3 1 Amp (24 VDC) Dry Contact
Communications:	Communications: TCP/IP: Yes WiFi Backhaul (8.02.11): 100Mbps Bluetooth Low Energy (BLE): Yes RS-485: Yes Bandwidth: 230Kbps DHCP Support: Yes, Default Static IP Support: Yes
System Specifications:	Controllers per System: Unlimited Time Schedules: Unlimited Access Profiles: Unlimited 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 (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/CAT6 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

MEASUREMENTS



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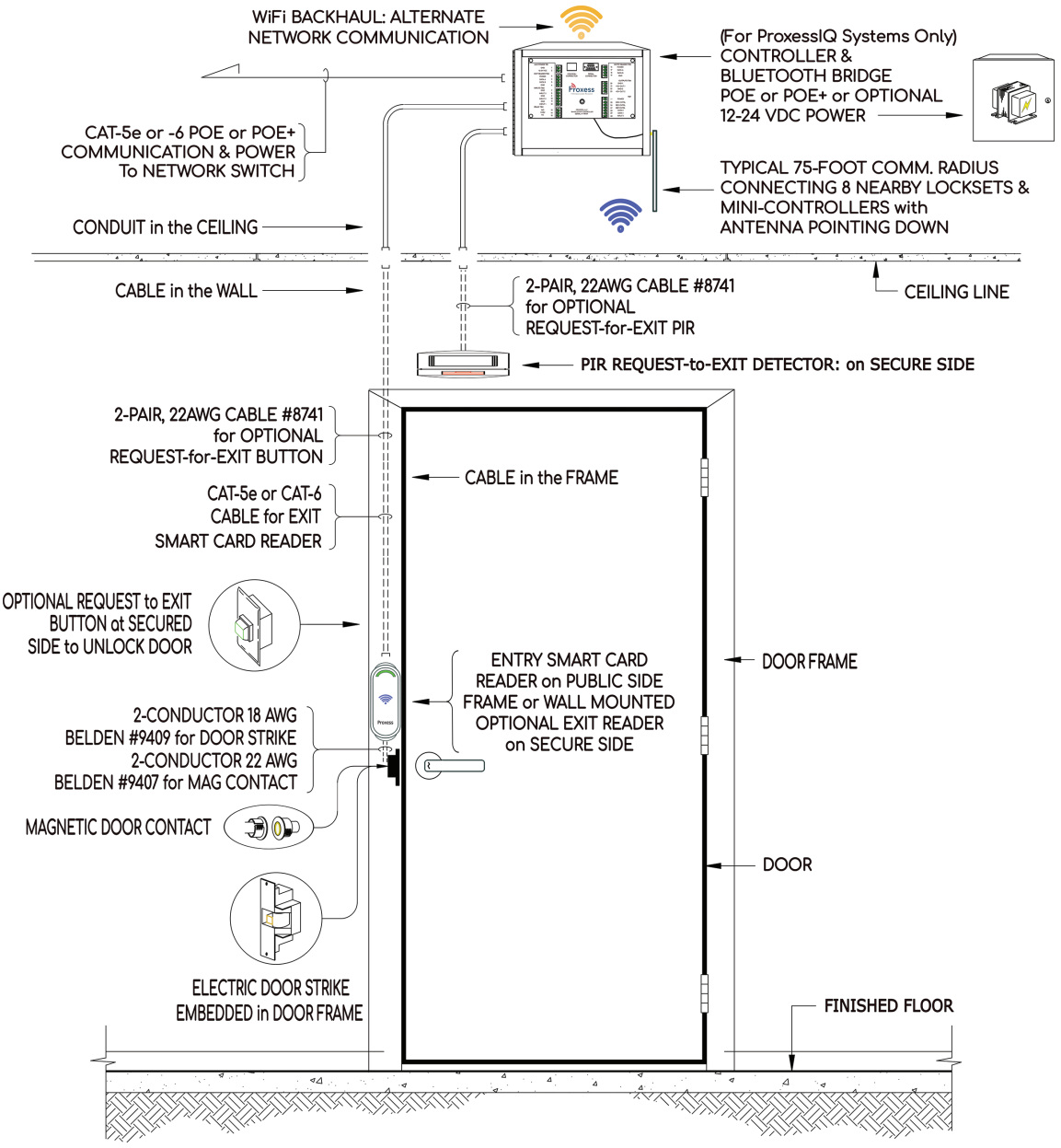
SAMPLE DOOR DEVICE LAYOUT AND CONNECTIVITY



- 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.

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