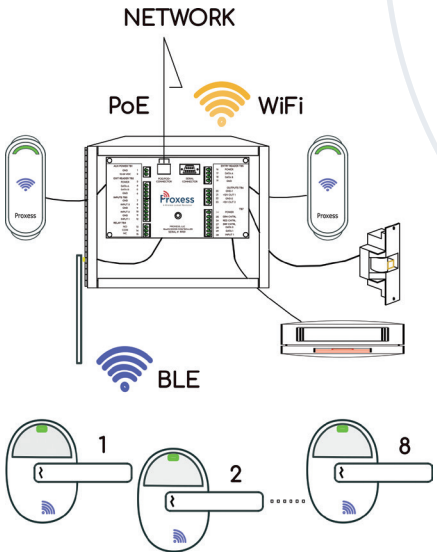
Proxess

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.

BoxIQ™

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.

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SYSTEM

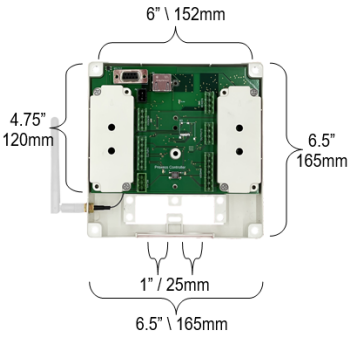
BoxIQ™ & Proxess Bridge™

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
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

MEASUREMENTS



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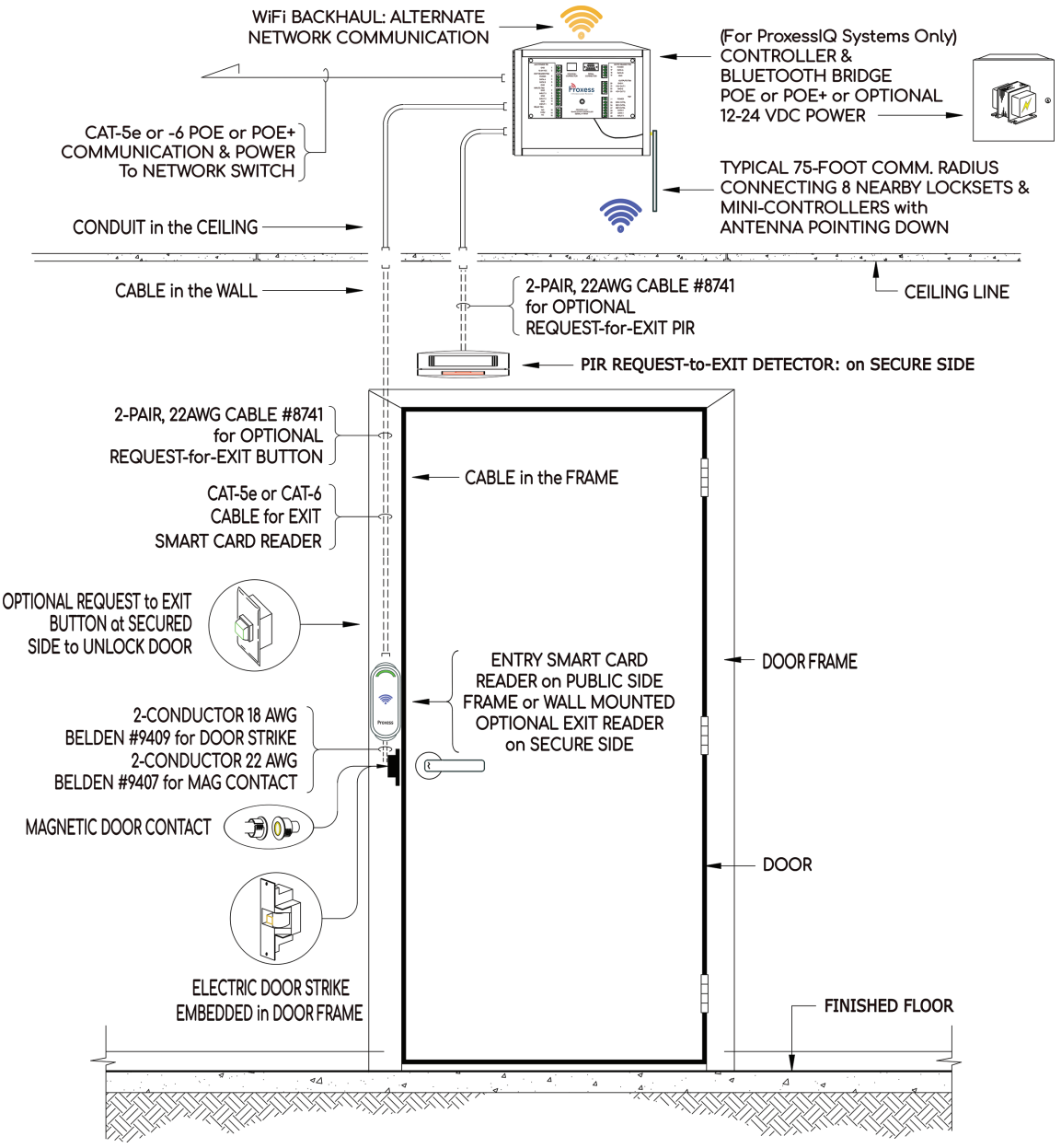
SAMPLE DOOR DEVICE LAYOUT AND CONNECTIVITY



- 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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