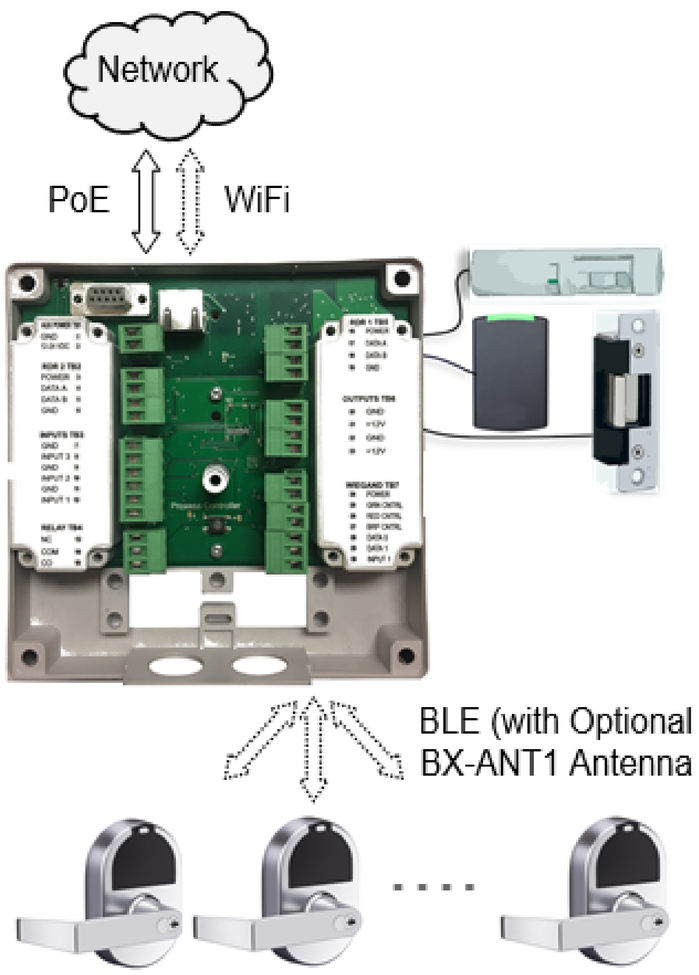
BoxIQ™

PoE+, WiFi, BLE Controller

For ProxessIQ™ Software Only

Features

- **Brings your Proxess locksets "On-Demand" via Bluetooth (*Optional BX-ANT1 antenna required)**
- **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 (with BX-ANT1)**
- **Highest level security credentials using Mifare DESFire EV2™ and BLE**
- **Credentials collect transactions from and download updates to Proxess locksets. Security handshakes for verification.**
- **Future RS-485 communication with Proxess locksets and downstream sub-controllers**



The BoxIQ™ is the Proxess solution for the more conventional access control doors using a reader. The BoxIQ™ wirelessly communicates with your Proxess electronic locksets "On-Demand" (with the separately ordered BX-ANT1 antenna). The BoxIQ™ also allows the user to control commands and further monitor access to high-security portals using the ProxessIQ™ software.

For communication reliability and optimal battery performance, up to eight (8) Proxess locksets may be connected to a 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.

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.

Providing security flexibility with the separately ordered BX-ANT1 antenna, the BoxIQ™ provides on-demand lockdown and open-door commands and also receives emergency Proxess lockset events.

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 (with BX-ANT1) 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.

ENCRYPTION

Upstream and downstream communications utilize AES 256-bit encryption.

303-317-6656 www.proxess.com info@proxess.com

BoxIQ

SYSTEM SPECIFICATIONS

PART NUMBERS

BX-EN-POE Board with enclosure
BX-ANT1 Antenna for On-Demand lockset comms

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 .83A
Line Voltage Input	12-18 VDC
Current Consumption	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

1 Amp (24 VDC) Dry Contact

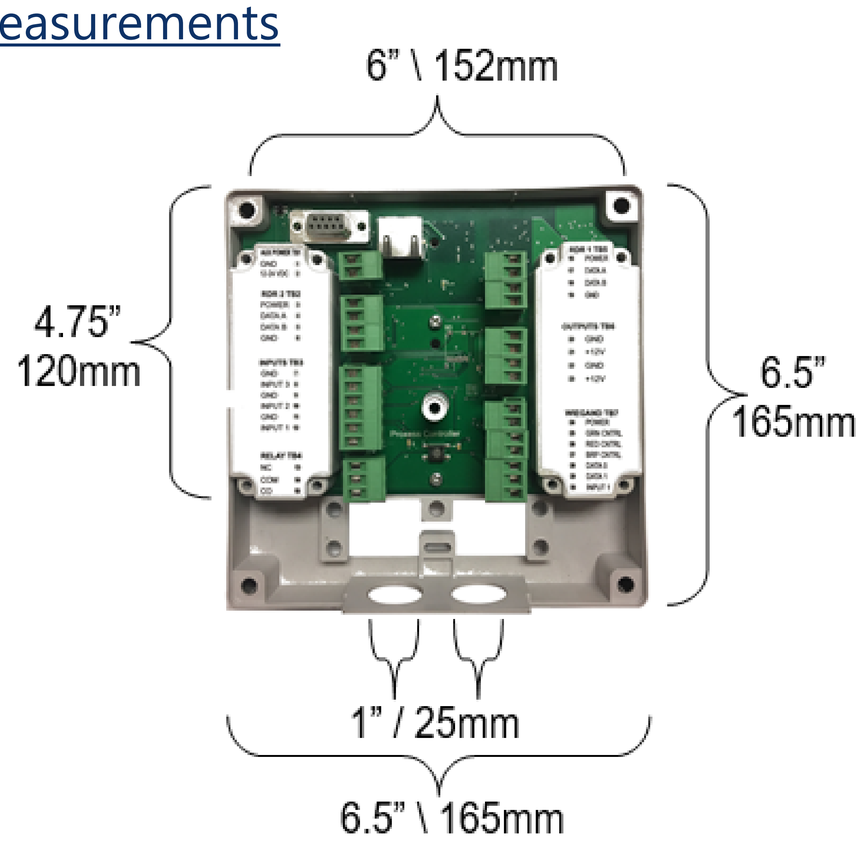
COMMUNICATIONS

TCP/IP	Yes, 100Mbps
WiFi, 8.02.11 (Wireless)	Yes
Bluetooth Low Energy (BLE)	Yes
RS-485	Yes, 230Kbps
Ethernet Bandwidth	200 kbps
DHCP	Yes, Default
Static IP Support	Yes

SYSTEM SPECIFICATIONS

Cardholders	5,000
Controllers per System	Unlimited
Time Zones	Unlimited
Access Zones	Unlimited
Data Retention	30 Days, flash storage
Reader Communication	RS-485, Bi-directional
Door Open Time	0-99, 999 seconds
Operating System	Linux, SOM On-board

Measurements



FEATURES

Reader Ports	1 x RS-485
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

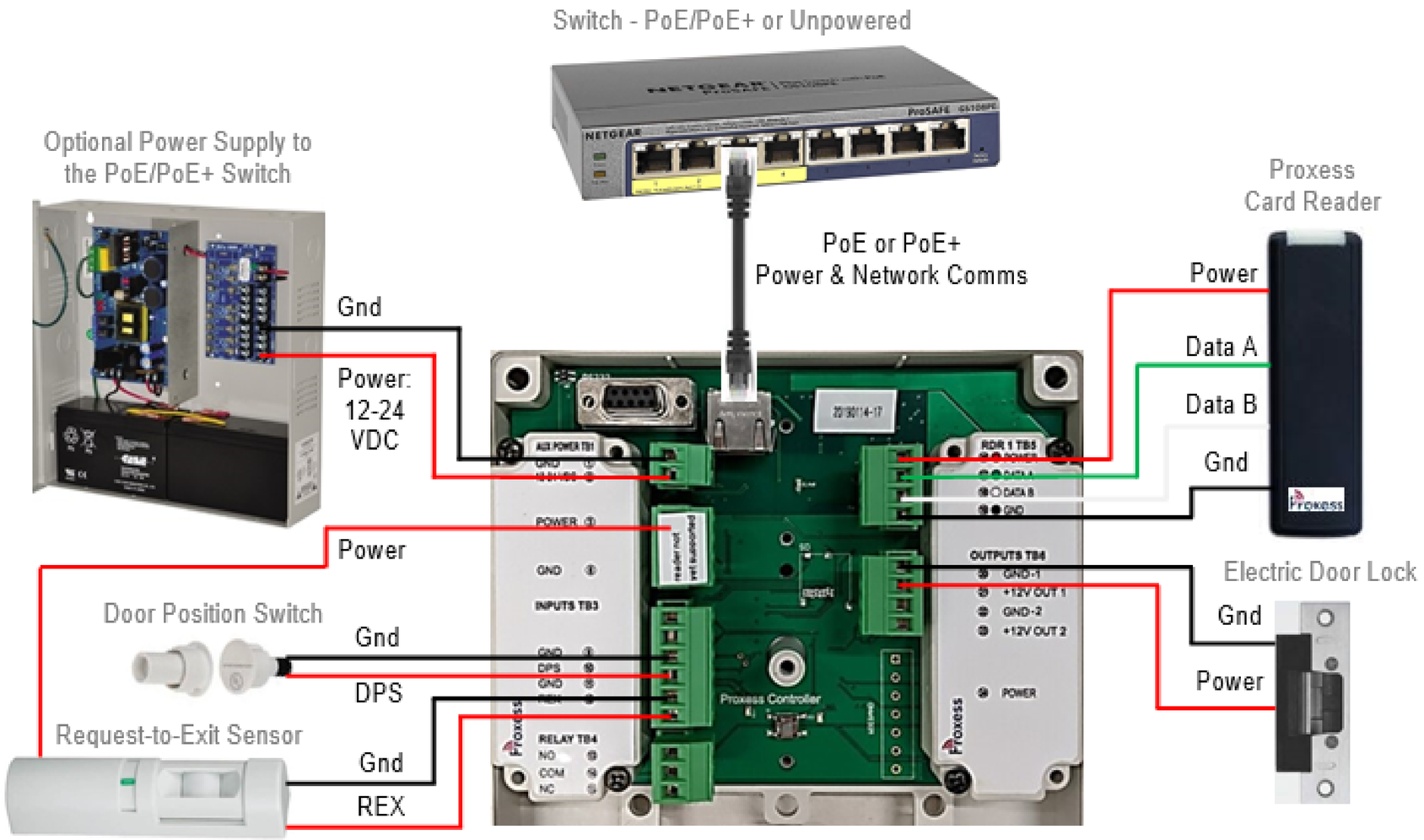
HARDWARE

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

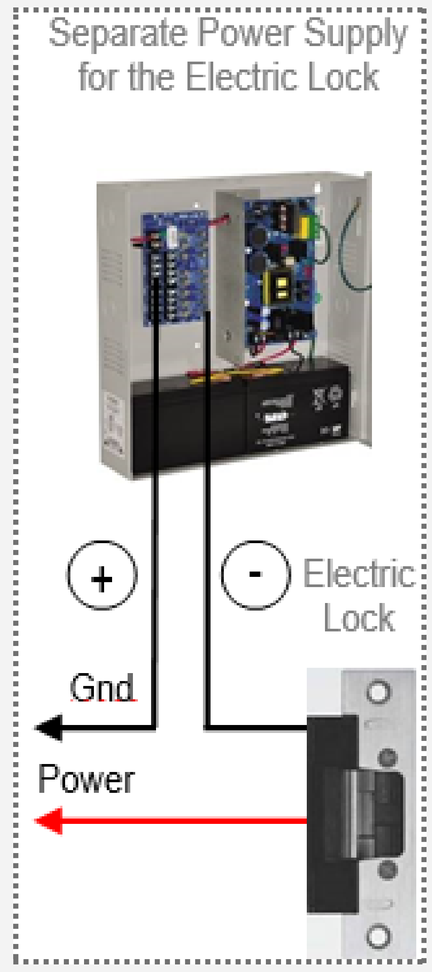
Proxess

CONTROLLER AND SYSTEM WIRING

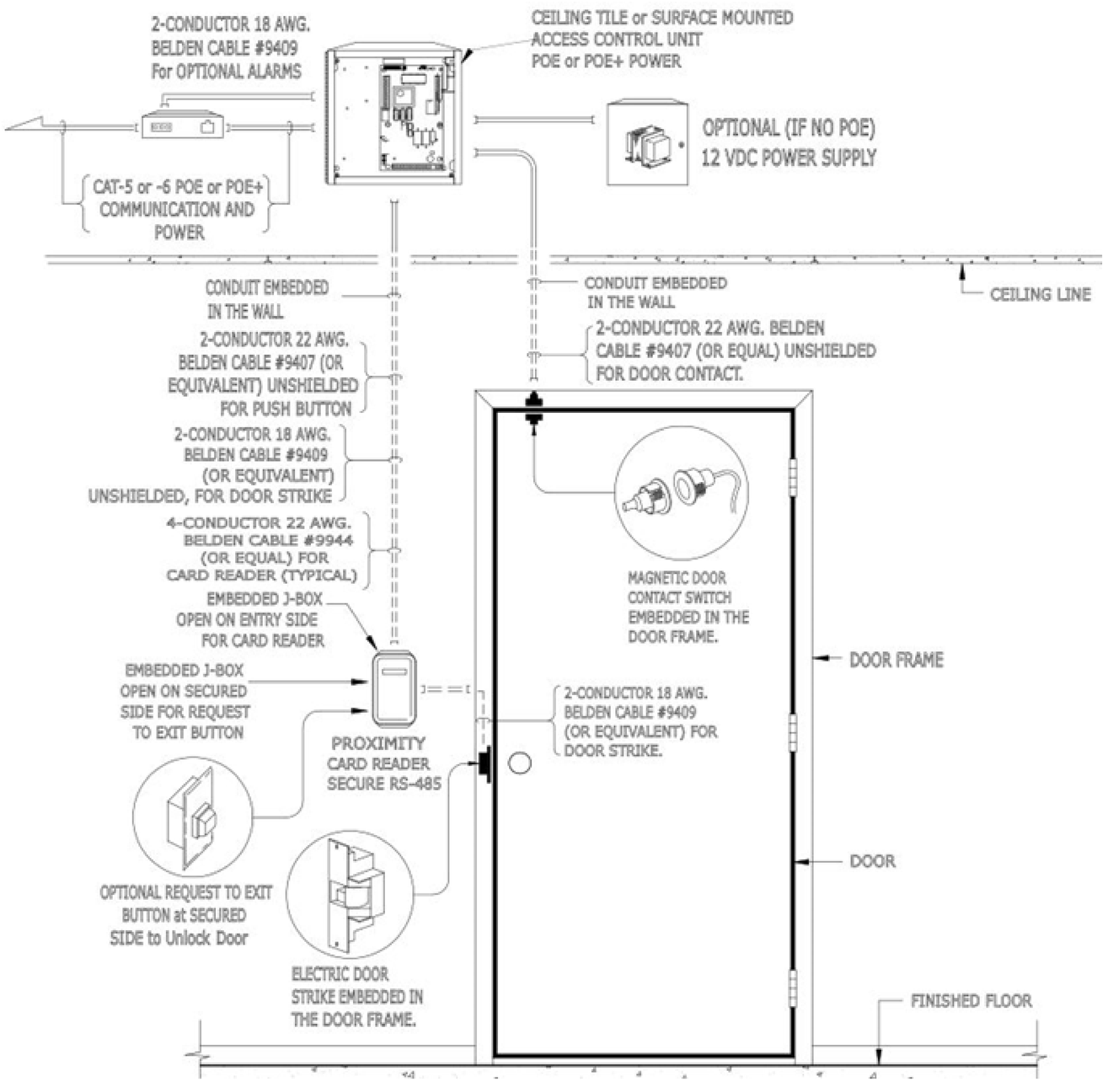
BoxIQ



Option



SAMPLE DOOR DEVICE LAYOUT AND CONNECTIVITY



Power Note

Verify the voltage and current requirements of your selected electric door lock prior to connecting to the Proxess BoxIQ. If you have any questions on the suitability of a direct power connection from the BoxIQ, please select and use a separate power supply and connect per the above drawing.

Proxess

Proxess
BoxIQ

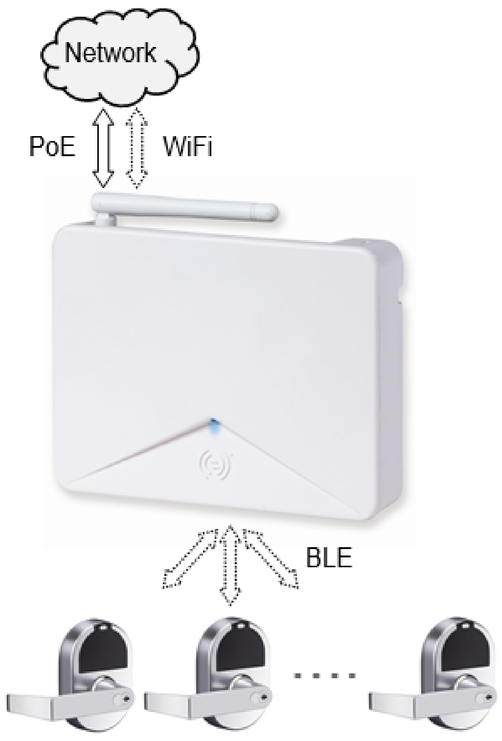
Proxess Bridge™

Online BLE Bridge

For ProxessIQ™ Software Only

Features

- **Brings your Proxess locksets On-Demand via BLE (Bluetooth Low Energy)**
- **Just plug-in a PoE\PoE+ cable…or power with a transformer and use your existing WiFi**
- **Provides the Proxess locksets a bridge to automatically Call Home**
- **Allows centralized Lockdown commands to locksets**
- **Gateway for Open Door commands to locksets**
- **Pathway for lockset alarms to notify the ProxessIQ™ software**
- **Forthcoming RS-485 communication from the Bridge to the locksets**



The Proxess Bridge™ communication module brings your Proxess compatible electronic locksets online, upgrading the communication frequency and reducing manpower at the door to affect changes.

For communication reliability and optimal battery performance, up to eight (8) Proxess locksets may typically be connected to a Proxess Bridge™. Uniquely, locksets are assigned in the ProxessIQ™ software to a specific Proxess Bridge™.

Proxess Locksets may be located at distances up to a 90-foot radius although a typical recommendation is 50 feet from the gateway due to potential interference reductions by walls, ceilings, floors and other metal surfaces or equipment. Proxess locksets are always awake, allowing On-Demand Lockdown, open door and other commands. Our Open BLE communications technology and frequency hopping maximize lockset battery life, typically exceeding two (2) years.

An unlimited number of Proxess Bridges™ may be added to any site or ProxessIQ™ system. Gateways 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 DHCP.

For those difficult to reach areas, the Proxess Bridge™ also includes a WiFi communications backhaul, where it would alternatively draw low voltage power from near the panel.

Further flexibility for real-time communications include native RS-485 communications to both the Proxess locksets, future-proofing your security investment.

Providing security flexibility, Proxess Bridge™ provides on-demand lockdown and open-door commands and also receives emergency lockset events.

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 wake-ups for Lockdowns and Door-Open commands, as well as events and notifications from Locksets to the ProxessIQ™ software.

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 128-Bit AES encryption.

BATTERY LIFE

Our unique Always-Available BLE and our advanced battery life routines and technologies extend lockset battery life.

PART NUMBERS

BX-BR1 BLE bridge for On-Demand
BX-ANT1 Antenna for On-Demand lockset comms

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