

# Paxton BLU Expansion Controller

## Overview

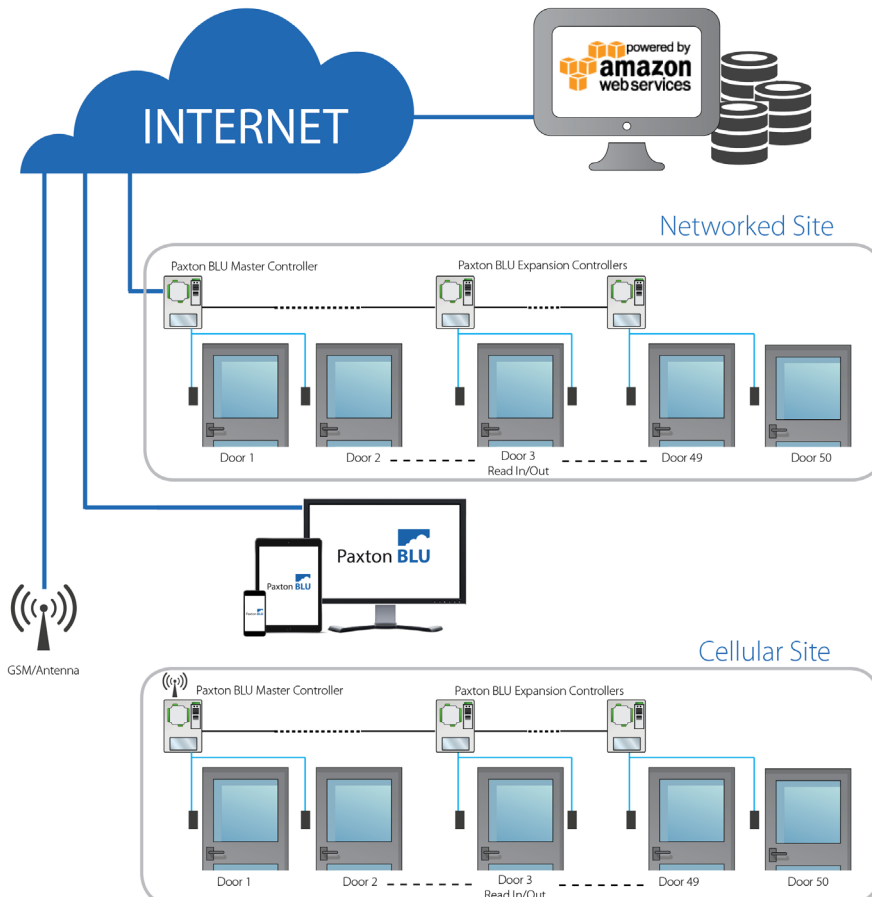
Paxton BLU Access Control is a highly scalable access control system, specifically designed for multi-site operation with connectivity over the LAN or cellular network. With over 100,000 users per controller and the capability to manage 10,000+ sites combined with the option of LAN or cellular connectivity, Paxton BLU can provide seamless integration of the most remote site applications.

Connectivity options of Ethernet and mobile data offer flexibility, access to remote sites and cost effective alternatives to installing ADSL or fiber. The control unit stores access information locally and will continue to function in the event of loss of connectivity to the server.



## Features

- Cellular/Ethernet
- 2 door/2 reader controller
- Expandable up to 50 doors per site with additional Expansion controllers
- 10,000+ managed sites
- 100,000+ users per controller
- 512 Time zones
- 1000 Access levels per controller
- Activity reports
- LED indications
- Web browser for desktop, tablet and phone
- Distributed database, 1000s of events per controller





## System

Web browser	IE, Firefox, Chrome, Safari
Sites/connections	10,000+ connecting to cloud
Doors	10,000+ with 2 door controllers
Users	100,000+ per controller
Alarm notification	On screen, (SMS & email TBC)
Time zones	512 per site
Holidays	16 per site
Access levels	1000 per site
Activity reports	Weekly, monthly, daily - TBC
LED indications	Power, unlock, modem OK and diagnostics



## Electrical

Supply	12V/24V 2A AC/DC
Power consumption	2A max @ 12V, 500mA typ @ 12V
PSU	12V DC 2A with charger
Battery backup	12V 7AH (not included)



## Communication

Communication options	Half duplex RS485
	Up to 50 doors per master controller



## Hardware

Dimensions (W x H x D)	9 1/8" x 2 5/8" x 3 1/8" (236mm x 320mm x 80mm)	
Readers/Keypads	All Paxton clock and data and various Wiegand formats available	
Cable	Belden 9540 10 core (10m maximum)	

Input/Output	100 yds	2 conductor - Alpha 1172C (22AWG) or equivalent
Reader/Keypad	82 feet	8 core, shielded - Belden 9538, Alpha 1298C (22AWG) or equivalent
Reader/Keypad	328 feet	8 core, shielded - Belden 9540/Belden 5306FE (18AWG) or equivalent

Door contact	Normally closed
Monitoring (sabotage)	Normally closed
PSU (fail, on battery)	Normally closed
Tamper (cabinet)	Normally closed
4 spare inputs (customer definable)	Configurable normally open, closed, or analogue (supervised inputs)
2 x lock relays	24V DC 4A max
2 x spare outputs (customer definable)	12V 0.5A max



## Environment

operating temperature	32°F - 120°F (0°C - 55°C)
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Paxton BLU Expansion controller, in enclosure	838-520-US
Paxton BLU Expansion controller, PCB only	838-621-US