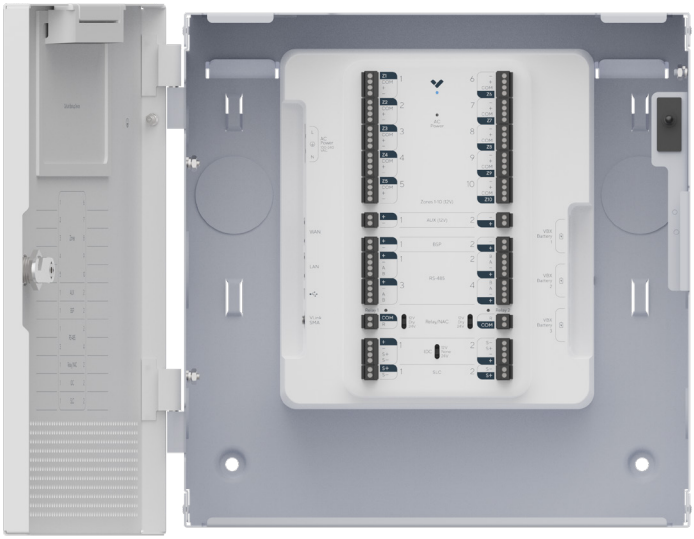
Verkada

# BP42

# Alarm Panel

NEW ALARMS | V LINK | V BX2



## Overview

The BP42 Alarm Panel acts as the central brain of a Verkada alarm system. With 10 input zones, it can easily replace traditional panels and take over existing sensors in smaller sites. Organizations can further extend coverage with BE32 expanders. For high availability, organizations can add LTE backup and VBX2 batteries to the BP42. Because the BP42 operates locally with expanders and keypads, only one cellular backup device is needed for the entire site.

The BP42 is cloud-managed and natively integrates with other devices in the Verkada ecosystem. Through the Command web or mobile app, users can view live and historical sensor activity, access zone mapping, and manage software-defined partitions. Organizations additionally benefit from alerts for offline devices, 24/7 support, and automatic firmware updates, ensuring their alarm panel is always operational and improving over time.

## Key features

### Complete site coverage

- 10 inputs for wired sensors, each with 12V AUX power
- 4 RS-485 outputs for keypads or expanders
- 2 BSP outputs for addressable sensor loops[2]
- 2 relay outputs for sirens and strobes
- 2 12V power outputs
- Built-in PoE port for hub or keypad
- Use the panel as a wired expander for satellite buildings via LAN

### Wireless support

- Built-in VLink hub connects up to 160 wireless sensors
- Unlimited expansion via PoE hubs, keypads, and repeaters

### Cloud-managed

- See the live status of all connected sensors and devices on an interactive zone map
- Automatic health checks and offline device alerts
- Automatic firmware updates for the latest features

### Highly reliable

- Built-in slot and 3 ports for 75Wh VBX batteries (sold separately)
- Built-in mount for cellular backup communicator (sold separately)

1. Sites must have one alarm panel to use intrusion sensors. The panel is not required for sites with camera triggers only.
2. The Better Sensor Protocol (BSP) enables wired sensors to be daisy-chained in an addressable loop. Learn more here.

# BP42
# Tech specs

## Power and network

| | | | |
|---|---|---|---|
| **Power consumption** | 90W max<br>See Output Specifications Table for load limits | **Uplink** | 100/1000Mbps RJ45 port,<br>USB 2.0 (for ACC-CEL-LTE-2) |
| **Power input** | 100-240VAC (50-60Hz)[1] | **Wireless communication** | VLink sub-GHz transceiver |
| **VLink wireless range** | Please refer to the downstream device datasheet | | |

## Inputs and outputs

| | | | |
|---|---|---|---|
| **Alarm inputs** | 10x alarm inputs with 12V DC aux power<br>Compatible with variable EOL resistors (1kΩ - 4.7kΩ | **Relay outputs** | 2x relays for siren/strobe with switch-selectable voltage & optional dry config:<br>• 12V DC wet operation<br>• 25V DC wet operation |
| **Conventional fire input (IDC)[2]** | 2x 2-wire or 2x 4-wire Initiating Device Circuit inputs (conventional) with switch-selectable 12/24V DC aux power<br>Note: IDC inputs share a single switch for voltage selection | **Addressable fire input (SLC)[2]** | 2x 2-wire Signaling Line Circuit inputs (addressable) with 36V DC aux power |
| **RS485 outputs** | 4x RS485 outputs with<br>4x 36VDC aux power | **PoE outputs** | 1x PoE+<br>30W total power budget |
| **Tamper detection** | Yes | | |

## General

| | | | |
|---|---|---|---|
| **Dimensions (with enclosure)** | Height: 12.6in / 32.1cm<br>Width: 12.6in / 32.1cm<br>Depth: 4.7in / 12cm | **Operating temperature and humidity** | 32 to 122° F / 0 to 50° C<br>0-90% RH non-condensing |
| **Weight** | 10.6 lb / 4.8 kg | **Warranty** | 10 years |
| **Certifications** | All certifications pending: FCC Part 15B Class A, ICES-003 Class A, CE, UKCA, RCM, CEC BC, UL/IEC 62368-1, CSA NO22.2 62368-1, UL 864, UL 2610 | | |

## Installation

| | | | |
|---|---|---|---|
| **Included accessories** | AC cable, AC terminal block, VLink antenna, 10x 1kΩ EOL resistors, wall mount, 2x keys for built-in lock, flathead screwdriver, 4x plywood screws | **Mounting Options** | Wall mount |

1. Can directly connect to AC mains or use included AC cable
2. Future software support

# Output specifications

| Power Output | Voltage Rail | | | | |
|---|---|---|---|---|---|
| | **5V** | **12V** | **24V** | **36V** | **54V** |
| Zones and Aux | – | 1.95A max across Zones 1-10 and Aux 1/2 | – | – | – |
| BSP | – | 0.4A max each | – | – | – |
| Relays | – | Switch selectable, 1.7A max each | Switch selectable, 1A max each | – | – |
| IDCs | – | No connect | No connect | – | – |
| SLCs | – | – | – | No connect | – |
| RS485 | – | – | – | 1.5A max each, 2A total | – |
| USB-A | ACC-CEL-LTE-2 only - 0.1A nominal | – | – | - | – |
| PoE | – | – | – | - | 802.3at, 0.55A max |

# Ordering information

## Panel

| Model number | Description | US cost (MSRP) USD | WW cost (MSRP) USD |
|---|---|---|---|
| BP42-HW | BP42 10-Zone Alarm Panel, North America Type B Plug (US and Canada Only)<br>BP42 10-Zone Alarm Panel, ANZ Type I Plug (AU and NZ Only) | $999 | $999 |

## Cellular Backup Communicator

| Model number | Description | US cost (MSRP) USD | WW cost (MSRP) USD |
|---|---|---|---|
| ACC-CEL-LTE-2 | Cellular Backup Communicator for BP42 and BP52 Panels | $349 | $349 |
| LIC-BX-CEL-1Y-CAP | 1-Year Cellular Backup License With Data, Capacity Increase | $299 | $299 |
| LIC-BX-CEL-3Y-CAP | 3-Year Cellular Backup License With Data, Capacity Increase | $849 | $849 |
| LIC-BX-CEL-5Y-CAP | 5-Year Cellular Backup License With Data, Capacity Increase | $1,349 | $1,349 |
| LIC-BX-CEL-10Y-CAP | 10-Year Cellular Backup License With Data, Capacity Increase | $2,699 | $2,699 |
| LIC-BX-CEL-1Y-RNW | 1-Year Cellular Backup License With Data, Renewal | $299 | $299 |
| LIC-BX-CEL-3Y-RNW | 3-Year Cellular Backup License With Data, Renewal | $849 | $849 |
| LIC-BX-CEL-5Y-RNW | 5-Year Cellular Backup License With Data, Renewal | $1,349 | $1,349 |
| LIC-BX-CEL-10Y-RNW | 10-Year Cellular Backup License With Data, Renewal | $2,699 | $2,699 |

## Backup Battery

| Model number | Description | US cost (MSRP) USD | WW cost (MSRP) USD |
|---|---|---|---|
| ACC-BAT-VBX2-75WH | VBX2 2nd Gen LFP Backup Battery for BP42, 75 Watt-Hours | $229 | $229 |