BlueWave Security Cellular Door Kit

Product Detail

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Intellectual property

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Cellular Door Kit Overview

Over our 10+ years of experience in the access control industry, we learned that networking is not always so simple. The truth is that some doors are just plain hard to reach. Gates, sheds, warehouses- these doors often are far away from network cabling and can be expensive to wire up. Even when the doors are wired, poor network performance can create headaches for users with little IT resources.
The BlueWave Cellular Door Kit circumvents these problems, ensuring you can secure any door on your property quickly and cost-effectively. Our cellular kit guarantees a streamlined installation for those hard-to-reach doors, and by leveraging AT&T's cellular network- you can be sure your door will stay online regardless of your network's performance.

Parts included in our Cellular Door kit:

- NG1 Door Controller
- Lantronix E210 Cellular Gateway and Antenna
- AT&T SIM card
- Altronix SMP3 Power Supply
- Transformer
- Back-up battery
- Patch and power cables

NG1 Board

Overview

The NG1 board is the brains of our cellular door kit. Your locking hardware and credential reader will wire directly to the board which will run off of 12 or 24 volts of power. No matter the deployment- whether it be electric strike, maglock, gate, elevator, garage door- our board is flexible enough to get the job done. With our extensive library of wiring diagrams and on-staff support team, you can be sure your installation will be straight forward.

For more information on our board, please see the NG1 Product Detail.

Configuration

For new installs:

- Controller comes with pre-configured settings. Refer to the wiring diagram below for installation instructions.

For upgrading existing doors:

- Statically assign the IP of the relevant board to 192.168.1.171

Cellular Gateway

Overview

Connecting your NG1 to the cellular network is easy thanks to our cellular gateway- the Lantronix E210. Once the gateway is wired to the door controller via CAT-5 cable, it provides a wireless connection to the server- whether it be hosted on-prem or in the cloud.

Configuration

- Cloud deployments: the E210 cellular gateway will come preconfigured with a VPN connection to your cloud-hosted server. Once the NG1 board is wired up to power and locking hardware (see our NG1 product guide), wire the E210 gateway via CAT-5 connection and supply power to the gateway via the SMP3/5 power supply. The included antennae is connected to the E210 and attached to the wall.
- On-Prem deployments: The E210 is wired to the SMP3/5 power supply. BlueWave support staff will walk installers through E210 and server configuration. Once configuration settings are in place, the E210 connects to the NG1 via CAT-5 connection.

Power Consumption

Like our NG1, the cellular gateway runs off of DC power. Our cellular door kit includes a transformer and an SMP3/5 power supply which will convert the low voltage AC power from the transformer into DC. The SMP3/5 will power both the NG1 and E210 gateway.

On-Prem / Cloud Hosted Server

Cloud

Our cellular cloud solution is for end-users who desire a quick installation with few IT resources. With our cloud instance, our in-house support team will have direct access to an end-user’s server. This translates to less day-to-day administration for the end-user and faster service time from our support staff.

On-Prem

On-Prem cellular solutions are right for customers with hard-to-reach doors that wish to handle the management and upkeep of their on-prem server. Experience working with OpenVPN is recommended.

Wiring Diagram