

## Easily add single doors to a cloud node.

The single io controller is used for adding doors to a cloud node one door at a time or expanding an existing pdk system. With the option of network, PoE, or wireless connectivity, the single io is the most flexible controller on the market. Each unit is equipped with a fully supervised power circuit that monitors input, output, battery voltage, and overall controller health. Users receive important system notifications via text and email.

## Models

Ethernet PN: 1DE

PoE PN: 1DPOE

Wireless PN: 1DW



## Single io Features



### Scalability

Whether you need three doors or a thousand, the single io controller also allows you to scale the system to just the right size. Also, with the flexibility of our WiMAC™ wireless, you can add more doors anytime, or anywhere.



### Plug n' Play Connectivity

All io devices were designed to be plug n' play. That means they're super easy to install right out of the box. It's easy to add in any io device no matter how large the job is, and you can quickly scale a system to any size. A cloud node can connect with up to a thousand doors on a single platform.



### Two Reader Inputs

Two reader inputs are ideal for applications where both read in and read out is a security requirement. Know exactly when users enter and exit a premise. The second reader input can also be assigned to trigger automated events.



### Fully Supervised

Never be caught off guard again. Pdk.io intelligently monitors the network and wireless connectivity of each controller in your system and alerts you if any issues arise.



### Unparalleled Wireless Range

With WiMAC™ (Wireless Mesh Access Control), experience up to one-mile line of sight, and 450 ft (on average) indoor range. Every WiMAC™ device installed extends and strengthens the self healing wireless mesh network. WiMAC™ is unmatched in security with a proprietary signal and AES encryption.



### Network, PoE, Wireless

Choose from three flexible connectivity options that fit any application. The single io is built for ultra low bandwidth consumption and easily connects to existing or dedicated networks. Easily expand a systems wireless coverage (via network) using the ethernet gateway.

## Specifications:

### Connections

Removable Screw-down Terminals  
Power Supply Input  
Industrial-grade 2A Form-C Relays (1 Door / 1 Aux)  
Reader Input (2)  
Input A (Door Position Sensor)  
Input B (Request To Exit)

### Communication Options

Ethernet  
PoE  
WiMACT™ Wireless Mesh (2.4 GHz / 802.15.4)  
Encryption: AES 128bit  
Wireless Range: 1 Mile LoS, 450ft indoor average

### Environmental

Temperature: -20° ~ +60° C or -4° ~ +140° F  
Humidity: 0 - 95% relative humidity non condensing

### Enclosure

Dimensions (W x H x D) 6.5" x 7.5" x 2"  
Metal lockable security can (indoor use only)  
Lock sold separately

### Weight

1.65 lbs (26.4 oz)

### Compliance

Conforms to UL 294 (excludes 1DPOE)



## Requirements:

### Power

12-24V AC/DC Input  
12VDC 1.5A \*Battery-Backed Output  
Powers readers and other door hardware directly from the bus  
\*Power supply and battery not included

### Recommended Power Supply

Power Supply: ELK-TRG1640 or HVC

### Manufacturer's Limited Warranty

One to three-year warranty against defects in materials and workmanship. For full details visit [prodatakey.com](http://prodatakey.com).

Visit the ProdataKey dealer website [support.pdk.io](http://support.pdk.io) to access marketing, installation and support resources.  
For questions about the single io, please contact [support@prodatakey.com](mailto:support@prodatakey.com)