



1-Door Controller Expansion Board

R1E

SKU: 112139

PDK's Red 1 controller includes built-in Ethernet connectivity and self-discovery, simplifying IP configuration and functionality. Communication plug-and-play connection options are added by purchasing a Red WiMAC wireless or PoE++ Module Kit. The Red 1 is equipped with OSDP functionality, an on-board power supply, and a fully-supervised power circuit that monitors input, output, battery voltage, and overall controller health.

Features

- ProdataKey Red products lead the industry in secure communication protocols. This includes OSDP, mobile, and encrypted credential communication.
- Equipped with an on-board power supply, and a fully-supervised power circuit that monitors input, output, battery voltage, and overall controller health.
- All PDK Red devices were designed to be plug n' play. That means they're easy to install right out of the box. It's simple to add any device, no matter how large the job is.
- The Red 1 will be automatically discovered by the Cloud Node when an Ethernet cable is connected; it is not necessary to enter the IP address; the device is self-discoverable.
- Additional WiMAC and PoE++ plug-and-play connection kits can be added by purchasing the respective wireless or PoE kit. Plug the module into the PDK Red 1 board, and it's ready to go.
- Whether you need one door or a thousand, the PDK Red 1 Controller gives you the flexibility to add more doors anytime, anywhere, on any device.

Connections

Removable Screw-down Terminals
Built-in Power Supply
Industrial-grade 2A Form-C Relay
Reader
Input A
Input B

Requirements

Power
12V-24V DC Input
14 VDC 2A 28 watt class 2 wall-wart power supply (Input supply to the board)
Powers readers and other door hardware directly from the bus
* Battery not included, but a backup battery must be installed to comply with UL 294.

Communication Options

Ethernet
WiMAC Wireless (2.4 GHz/ 802.15.4)

PoE++

Encryption: AES 128bit

Wireless Range: 1 Mile LoS, 450ft indoor average

Environmental

Temperature: -4° ~ +140° F / -20° ~ +60° C

Humidity: 0 - 95% relative humidity

non-condensing

Enclosure

Dimensions (W x H x D) 10.4375" x 7.625" x 3"

Metal lockable security can (indoor use only)