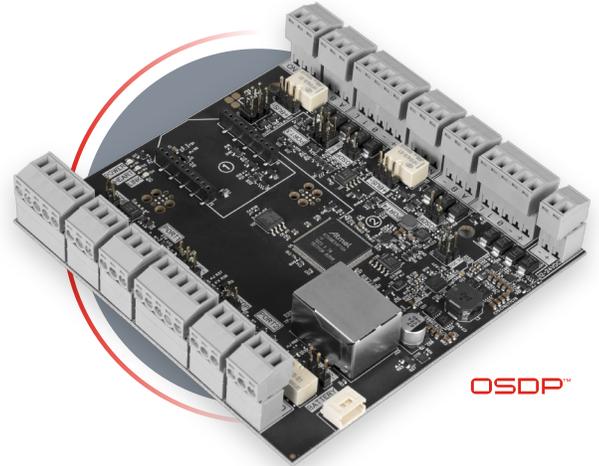


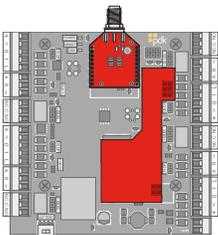
## High-Security Four Door Expander Board

PDK Red™ Expander Boards accomplish complete scalability, built to customize the Red Max and accomplish all of your system needs. Every expander board includes built-in Ethernet connectivity and self-discovery, simplifying ip configuration and functionality. Each expander is equipped with OSDP functionality, an onboard power supply, and a fully-supervised power circuit that monitors input, output, battery voltage, and overall controller health.



### Model

PN: R4E



### Optional Module Add-On Kits

WiMAC Wireless Module | PN: RMW

PoE++ Module | PN: RMPOE

## Features

### advanced**security**

ProdataKey Red products lead the industry in secure communication protocols. This includes OSDP, mobile, and encrypted credential communication.

### power**monitoring**

Equipped with an onboard power supply and a fully-supervised power circuit that monitors input, output, battery voltage, and overall controller health.

### plug'n'play**connectivity**

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.

### self**discoverable**

The Red 4e 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.

### module**kits**

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 4e board, and it's ready to go.

### system**scalability**

Whether you need four doors or a thousand, the PDK Red 4 Expander gives you the flexibility to add more doors anytime, anywhere, on any device.

## Specifications

### Connections

Removable Screw-down Terminals  
Built-in Power Supply  
Industrial-grade 2A Form-C Relays (4)  
Reader (4)  
Input A (4)  
Input B (4)

### 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

Red Expander Boards can be mounted to any Red enclosure.

### Compliance

Conforms to UL 294



### Manufacturer's Limited Warranty

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

## Requirements

### Power

12V-24V DC Input  
Board powers readers and other door hardware directly from the bus.

\* Power supplies included with purchase of Red Max Controller

\* 12V 12ah backup battery not included, but must be installed to comply with UL 294.