

## Fully Customizable High-Security Controller

Pdk's Red™ Max controller is truly in a class of its own, coming fully equipped with two Altronix power supplies and two Red four-door expander boards. The Red Max is fully customizable with any Red expansion board, allowing for scalability and control of up to 24 doors from one enclosure. Expander boards are available in one-door, two-door, and four-door options. Each expander includes built-in Ethernet connectivity and self-discovery, simplifying IP configuration and functionality.



## Model

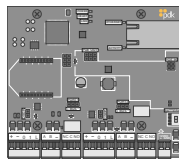
PN: RMAX

## redexpanders

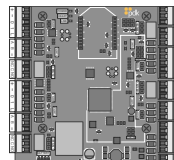
Additional Red Expander Boards sold separately



one door  
network  
PN: R1E



two door  
network  
PN: R2E



four door  
network  
PN: R4E

## Features

### fully customizable

The Red Max is fully customizable with any Red expansion board, allowing for scalability and control of up to 24 doors from one enclosure.

### power monitoring

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

### self discoverable

The Red Max Expander boards 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.

### advanced security

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

### 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.

### automatic updates

Experience future-proof access control that's always up-to-date and protected with the latest security enhancements.

## Specifications

### Red 4 Expander Connections

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

### Red 2 Expander Connections

Removable Screw-down Terminals  
Industrial-grade 2A Form-C Relays (2)  
Reader (2)  
Input A (2)  
Input B (2)

### Red 1 Expander Connections

Removable Screw-down Terminals  
Industrial-grade 2A Form-C Relays (1)  
Reader (1)  
Input A (1)  
Input B (1)

## Communication Options

Ethernet

## Environmental

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

## Enclosure

Dimensions (W x H x D) 20.75" x 26.75" x 4.125"  
Metal lockable security can (indoor use only)

## 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)

Visit [www.prodatakey.com](http://www.prodatakey.com) or [www.prodatakey.zendesk.com](http://www.prodatakey.zendesk.com) to access marketing, installation and support resources. For questions about the Red Max Controller, please contact [support@prodatakey.com](mailto:support@prodatakey.com)

## Requirements

### Power

12 VDC  
Power readers and other door hardware using the built-in bus.  
10A concurrent max on the bus  
\* 8 ah backup battery not included but is required to comply with UL 294.

### Included Power Supply

Altronix eFlow 102NB (2)  
120VAC 60Hz input  
12VDC output