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.
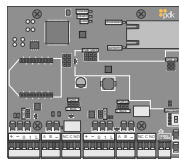
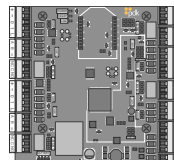## Model
PN: RMAX

red**expanders**
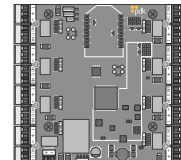
Additional Red Expander Boards sold separately

one**door**
network
PN: **R1E**

two**door**
network
PN: **R2E**

four**door**
network
PN: **R4E**

auxiliary
network
PN: **A8E**

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.

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

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

plugn'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 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.

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)

Aux 8 Expander Connections

Removable Screw-down Terminals
Built-in power supply
Industrial-grade 2A Form-C Relays (8)
Inputs (8)

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)

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.

NOTE: for proper operation, use the provided power supply. When not using the provided power supply, PDK recommends using a regulated power supply that outputs no greater than 24 volts as measured with a multimeter.

Included Power Supply

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

Manufacturer's Limited Warranty

One to five-year warranty against defects in materials and workmanship. For full details, visit www.prodatakey.com/warranty

Visit www.prodatakey.com or www.prodatakey.zendesk.com to access marketing, installation and support resources.
For questions about the Red Max Controller, please contact support@prodatakey.com