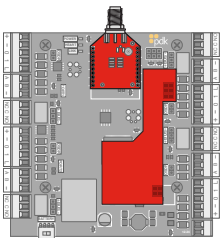## High-Security Eight-Door Controller

Pdk's Red™ 8 controller includes built-in Ethernet connectivity and self-discovery, simplifying IP configuration and functionality. Additional plug-and-play connection options are available by simply purchasing a Red WiMAC™ wireless or PoE++ Module Kit. The Red 8 is equipped with OSDP or Wiegand functionality, a built-in Altronix power supply, and a fully-supervised power circuit that monitors input, output, battery voltage, and overall controller health.

Model
PN: R8

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.

self**discoverable**
The Red 8 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.

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

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 8 board, and it's ready to go.

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.

system**scalability**
Whether you need two doors or a thousand, the PDK Red 8 Controller 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 (8)
Reader (8)
Input A (8)
Input B (8)

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) 14.25" x 18.25" x 4.0625"
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

Requirements

Power

12 VDC
Power readers and other door hardware using the built-in bus.
10A concurrent max on the bus
Operating Amperage: 35mA per board
(Continuous amperage draw when idle)
*12 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
120VAC 60Hz input
12VDC output

Visit www.prodatakey.com or www.prodatakey.zendesk.com to access marketing, installation and support resources.
For questions about the PDK Red 8 Controller, please contact support@prodatakey.com