

## PowerNet™ IP Reader-Controller



Back View

**PowerNet™ IP Reader-Controller**  
 PN: RC-03 PRX  
 PN: RC-03 PRX K  
 PN: RC-03 MCT  
 PN: RC-03 MCT K

- Proven Innovation – Our patented PowerNet™ Reader-Controller provides the first “pure IP” to-the-door solution that eliminates the need for a separate power supply, control panel and dedicated hard wiring.
- Greater Value – Compared to traditional systems that require more equipment, labor and maintenance, the total cost of ownership is far less.
- Total Flexibility – The ability to easily integrate with other systems and go where other access control solutions can't gives you the freedom to adapt to changing needs.
- Intelligence at the door – A single PowerNet™ is capable of storing 64,000 cardholders, 5000 access events and 32 time zones which can be configured and accessed by an external host system.
- IP architecture allows management of thousands of Reader-Controllers on a single computer across a geographically disbursed network.
- Use our DHCP functionality or call home capability to seamlessly connect to the host computer to create a simpler installation.
- The Open Systems platform enables seamless integration with other systems, including SQL, and TCP/IP. The powerful integration with Video Management Systems allows a fully comprehensive security solution.
- Our local mode feature allows readers to function without the host. This results in faster user response times, less network traffic and reduced host system loading.
- Our DB Crystal Matrix Software is included with the price of the reader; there are no additional licensing fees for an unlimited number of users.
- Proximity is the most commonly used technology in the market, but our MultiCard Reader(MCT) is compatible with smart cards (MiFare, iClass, PIV).

## SPECIFICATIONS

### CONSTRUCTION

- Mullion Form Factor
- Flame Retardant ABS
- Potted for greater weather resistance
- Dimensions: 1.625" X 6.750" X .940" (mullion)

### POWER OPTIONS (field selectable)

- Power Over Ethernet (PoE), (IEEE 802.3af, Class 0)
- DC power: <125 mA @ 12 volts DC, < 70 mA @ 24 volts DC

### NETWORK COMMUNICATIONS

- Ethernet, TCP/IP, standard RJ45
- Network Host or Client modes supported
- ASYNCH communications – no polling
- Field flashable microcode

### ENVIRONMENTAL

- UL-294 and rated for Outdoor use
- Meets FCC Part 15 certification, ambient operating temperature -40 to 50° C (-40 to 120° F), operating humidity is 0 – 100%
- Exposure Ratings: IP56 and NEMA Type 4X

### OUTPUTS

- 12 wire pigtail detachable
- 2 TTL outputs
- 1 Lock control circuit (NC&NO Supported)
- Power Output; 0.6amps at 12V

### INPUTS

- Three configurable inputs:
  - Door Sense
  - Request to Exit (REX)
  - Optional Input (AUX)
- RS232 interface to connect serial devices like Pin Pads and Wiegand readers

### VISUAL INDICATOR

- Two LED signals for reader status
- Network LEDs for connected and receiving status

### SECURITY FEATURES

- Optical tamper switch
- Power Up Diagnostics
- AES-256 bit Encryption

### READ RANGE

- 2" – 5" typical on RFID cards
- Proximity read speed: <250msec

### OPERATING FREQUENCY

- 125 kHz (FSK modulation)
- MCT Model: 13.56 MHz (ISO 14443 A & B)

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