PowerNet™ IP Reader-Controller

**SPECIFICATIONS**

**CONSTRUCTION**
- Mullion Form Factor
- Flame Retardent 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 50º C (-40 to 120º 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)

**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 disbursted 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.**

**Proximity is the most commonly used technology in the market, but our MultiCard Reader (MCT) is compatible with smart cards (MiFare, iClass, PIV).**