

# PowerNet IP-Reader-Controller



Now it's easier than ever to install a door access control system using your existing Ethernet network. It can be easily integrated with an IP video surveillance security system.

The ISONAS PowerNet IP Door Access Control is a reader and controller. With intelligence built into each and every unit it is designed to not only read RFID cards but to control a door and other devices. All ISONAS reader models include powerful Crystal Matrix Software™



## Features:

- TCP / IP Direct Network Connectivity
- Open System built with MS Windows
- Reads HID proximity cards and ISONAS proprietary cards
- Connector for quick and simple installation
- Power Over Ethernet (PoE) built in
- Scalable: Unlimited number of readers on a system and unlimited number of users
- Fail-safe: Full functionality in primary, Network mode; typical access functionality supported in stand-alone mode
- Network Ready: The only panel-free system with direct connectivity to the Data Network
- Adaptable: MS Windows software platform is enabled to support integration with other systems; multiple options include TCP/IP, OPC and BacNet.
- Easy: Plug and play design eases installation and MS Windows interface is familiar to users

All ISONAS IP Door Reader-Controllers connect directly to the Ethernet network via existing LAN wiring. The panel-free system, featuring ISONAS Crystal Matrix Software™, places real-time control of enrollment, access, time & attendance and emergency response, in the hands of your authorized security administrator.

The PowerNet IP Readers are "true network devices" designed using IP standards and technology. Once installed, the reader-controllers use TCP/IP to open a dialogue with the ISONAS Crystal Matrix Software™ and await your specific commands and parameters.

This "plug and play" configuration is much easier than stringing special wiring and less time consuming than programming and connecting to control panels. The streamlining of installation, maintenance and integration results in significant cost-savings. End-users want to leverage the investment in their networks and this desire is driving demand for network-friendly, security devices. ISONAS's visionary hardware and software offer these solutions today.



## Specifications:

<b>CONSTRUCTION</b>
<ul style="list-style-type: none"><li>• Durable plastic enclosure, polycarbonate blend, UV stabilized</li><li>• Potted for greater weather resistance</li><li>• Ethernet interface, 3 monitor inputs &amp; 2 TTL outputs</li><li>• Twelve total terminations (3 for relay, 2 for power, 5 inputs, 2 outputs)</li></ul>
<b>DIMENSIONS</b>
<ul style="list-style-type: none"><li>• 1.625 X 6.750 X .940 (mullion)</li></ul>
<b>ENVIRONMENTAL</b>
<ul style="list-style-type: none"><li>• UL 294 and rated for Outdoor use</li><li>• Meets FCC Part 15 certification, ambient operating temperature 40 degrees to 50 degrees Celsius, operating humidity is 0 100%</li></ul>
<b>POWER OPTIONS</b> (field selectable)
<ul style="list-style-type: none"><li>• PoE, 12 volts, 24 volts</li><li>• Operating current is &lt;200 mA at peak @ 12v</li></ul>
<b>READ RANGE</b>
<ul style="list-style-type: none"><li>• 2 5 typical read range on RFID cards (depending on tag form factors) &lt;250 msec</li></ul>
<b>OPERATING FREQUENCY</b>
<ul style="list-style-type: none"><li>• 125 kHz (dual modulation, FSK &amp; ASK)</li></ul>
<b>COMMUNICATION INTERFACE</b>
<ul style="list-style-type: none"><li>• Ethernet, TCP/IP, standard RJ45, Interrupt driven</li><li>• RS232 interface to connect serial devices like Pin Pads</li><li>• Power OUTPUT excess power from the PoE circuit is available to power other devices like the electronic lock. Available power: 0.5 amps at 12 volts</li></ul>
<b>OUTPUTS</b>
<ul style="list-style-type: none"><li>• Two TTL outputs (active high), one relay output (for electric strike)</li></ul>
<b>MONITOR INPUTS</b>
<ul style="list-style-type: none"><li>• Three available inputs for door sense (normally closed), request for exit (REX, normally open) and an optional input for flexibility (AUX, normally open)</li></ul>
<b>VISUAL INDICATORS</b>
<ul style="list-style-type: none"><li>• Two LED indicators signal the reader controller s current status.</li><li>• Network LEDs show the reader is connected and is receiving and transmitting data.</li></ul>
<b>STANDALONE CAPABILITY</b>
<ul style="list-style-type: none"><li>• Capable of storing 64,000 cardholders, 5000 access events and 32 time zones which can be configured and accessed by an external host system</li></ul>
<b>PROTECTION</b>
<ul style="list-style-type: none"><li>• Optical tamper switch and internal power up diagnostics</li></ul>
<b>NETWORK ABILITY</b>
<ul style="list-style-type: none"><li>• LAN, driven by a powerful Windows host program</li></ul>
<b>FORM FACTOR</b>
<ul style="list-style-type: none"><li>• Mullion</li></ul>

