Presenting the ISONAS PowerNet IP Reader-Controller™
Newest product in the award-winning line of ClearNet IP Readers™
The first, panel-free, IP reader-controller with Power over Ethernet

Advantages over old-fashioned, panel - based access control:
- TCP / IP Direct Connectivity
- Open System built with MS Windows
- Reads HID proximity cards and ISONAS proprietary cards
- Connector replaces pig-tail for quick and simple installation
- Power Over Ethernet (PoE) built in

Distinctive Features:

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
Supported	ISONAS "no worry" policy provides technical assistance via phone, web & Email

All ISONAS IP Door Reader-Controllers connect directly to the data 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.

ISONAS ClearNet and 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. Customers find this "plug and play" configuration 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.

ISONAS PowerNet IP Reader-Controller Specifications

CONSTRUCTION
• Durable plastic enclosure, polycarbonate blend, UV stabilized
• Potted for greater weather resistance
• Ethernet interface, 3 monitor inputs & 2 TTL outputs
• Twelve total terminations (3 for relay, 2 for power, 5 inputs, 2 outputs)
DIMENSIONS
• 1.625" X 6.750" X .940" (mullion)
ENVIRONMENTAL
• UL-294 and rated for Outdoor use
• Meets FCC Part 15 certification, ambient operating temperature -20 degrees to 50 degrees Celsius, operating humidity is 0 – 100%
POWER OPTIONS (field selectable)
• PoE, 12 volts, 24 volts
• Operating current is <200 mA at peak @ 12v
READ RANGE
• 2" – 5" typical read range on RFID cards (depending on tag form factors)
• <250 msec
OPERATING FREQUENCY
• 125 kHz (dual modulation, FSK & ASK)
COMMUNICATION INTERFACE
• Ethernet, TCP/IP, standard RJ45, Interrupt driven
• New RS232 interface to connect serial devices like Pin Pads
• New Power Reset button cycles power on reader – no need to disconnect wires.
• New Reset to Factory Defaults button - if communication is lost, reader can be quickly reconnected.
• New Power OUTPUT - excess power from the PoE circuit is available to power other devices like the electronic lock. The available power is at least 0.5 amps at 12 volts.
• New field flashing - Flash the microcode on any reader, anywhere on the network.
• ASYNCH communications - The reader is no longer polled.
OUTPUTS
• Two TTL outputs (active high), one relay output (for electric strike)
MONITOR INPUTS
• Three available inputs for door sense (normally closed), request for exit (REX, normally open) and an optional input for flexibility (AUX, normally open)
VISUAL INDICATORS
• Two LED indicators signal the reader-controller's current status.
• Network LEDs show the reader is connected and is receiving and transmitting data.
PROGRAM MODE
• Four master cards; local, add, void, & void – all master cards for stand-alone programming (available upon request)
STAND – ALONE ABILITY
• Capable of storing 64,000 cardholders, 5000 access events and 32 time zones per cardholder which can be accessed by an external host system
PROTECTION
• Optical tamper switch and internal power up diagnostics
NETWORK ABILITY
• LAN, driven by a powerful Windows host program
FORM FACTOR
• Mullion

NEW Software Option!

Now the Crystal Matrix Software™ which comes bundled with your ISONAS IP Readers is available with the **Advanced Security Option (ASO),** designed to relieve Property Managers of the administrative and clerical burden of frequent updates to the database. Tenants can do it themselves!

The ISONAS IP Product Line

The ISONAS ClearNet and PowerNet IP Readers can be HID-enabled to read a variety of HID cards:

- Proxcard II
- ISOProx II
- DuoProx II
- Smart DuoProx II
- iCLASS Prox
- Proximity and MiFare
- Proxkey II
- MicroProx
- DuoProx
- PhotoProx

Ready to purchase?
Please contact:

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