ISONAS™
SECURITY SYSTEMS

Presenting the ISONAS PowerNet IP Reader-Controller™
Newest product in the award-winning line of PowerNet 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 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 -40 degrees to 50 degrees Celsius, operating humidity is 0 – 100%

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

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 0.600 amps at 12 volts.
- New field flashing - Flash the microcode on any reader, anywhere on the network.
- ASYNCH network communications - The reader is no longer polled.
- Expanded Local Mode feature set – Allows more installations to operate in Local Mode. Results in faster user response times, less network traffic, and reduced host system loading.

OUTPUTS
- Two TTL outputs (active high), one relay output (for electric lock, rated 1.0 A @ 30 VDC)

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.

STANDALONE CAPABILITY
- Capable of storing 64,000 cardholders, 5000 access events and 32 time zones which can be configured and accessed by an external host system
- For non-networked installations, supports standalone programming with three special cards; add, void, & void – all .

PROTECTION
- Optical tamper switch and internal power up diagnostics

NETWORK ABILITY
- LAN, driven by a powerful Windows host program

FORM FACTOR
- Mullion

The ISONAS PowerNet Reader-controller with optional Keypad

The ISONAS PowerNet Reader-controllers 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:

ISONAS Sales
sales@isonsas.com
800/581-0083 X 102