



**IP Reader  
Specifications**  
Model: PRC001B-IP-I

**Presenting ISONAS Award-Winning ClearNet® IP Reader-Controller!**  
Selected as Best New Access Control Product (ISC West 2004).  
The first, panel-free, IP reader-controller on the market...  
Now ETL-Certified to UL-Standard 294

**Advantages over old-fashioned, panel-based access control:**

- TCP / IP Direct Connectivity
- Open System built with MS Windows
- Reads proprietary RFID proximity cards (and HID upon request)
- Now available with a Power Over Ethernet (PoE) Option



**Distinctive Features:**

<b>Scalable</b>	Unlimited number of readers on a system and unlimited number of users
<b>Fail-safe</b>	Full functionality in primary, Network mode or default, Stand-Alone mode
<b>Network Ready</b>	The only panel-free system with direct connectivity to the Data Network
<b>Adaptable</b>	MS Windows software platform enables integration with other devices using Graphical User Interface (GUI) or SNMP
<b>Easy</b>	Plug and play design eases installation and MS Windows interface is familiar to users
<b>Supported</b>	ISONAS “no worry” policy provides technical assistance via phone, web & Email

The ISONAS 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 pros.

All ISONAS ClearNet IP Readers™ are “true network appliances” designed with IP standards and technology. Once installed, the reader-controller’s IP address immediately opens a dialogue with the ISONAS Crystal Matrix Software and awaits 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. This streamlining of installation, maintenance and integration results in significant cost-savings. Security pros know that the convergence of physical and IT security is driving demand for network-friendly devices. ISONAS’ visionary hardware and software offer those solutions today.



TransTech Systems, Inc.  
Toll Free: 1-888-VIDEO-ID  
Phone: 503-682-3292  
Fax: 503-682-0166  
Wilsonville, OR 97070  
www.ttsys.com

## ISONAS IP Reader-Controller Specifications

<b>CONSTRUCTION</b>
<ul style="list-style-type: none"> <li>Durable plastic enclosure, polycarbonate blend, UV stabilized</li> <li>Ethernet interface, 3 monitor inputs &amp; 2 TTL outputs</li> <li>Ten total terminations (3 for relay, 2 for power, 3 inputs, 2 outputs)</li> </ul>
<b>DIMENSIONS</b>
<ul style="list-style-type: none"> <li>1.625" X 6.750" X .940" (mullion all-weather with pigtail)</li> </ul>
<b>ENVIRONMENTAL</b>
<ul style="list-style-type: none"> <li>Meets FCC Part 15 certification, ETL-certified to UL Standard 294, operating temperature -20 degrees to 70 degrees Celsius, operating humidity is 0 – 100%</li> </ul>
<b>POWER</b>
<ul style="list-style-type: none"> <li>Input voltage is nominally + 12 VDC (7 – 15 volts)</li> <li>Operating current is &lt;200 mA at peak</li> </ul>
<b>READ RANGE</b>
<ul style="list-style-type: none"> <li>2" – 3" typical read range on RFID cards (depending on tag form factors)</li> </ul>
<b>READ SPEED</b>
<ul style="list-style-type: none"> <li>&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> </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; one for normal operation &amp; the other for programming mode</li> </ul>
<b>PROGRAM MODE</b>
<ul style="list-style-type: none"> <li>Four master cards; local, add, void, &amp; void – all master cards for stand-alone programming (available upon request)</li> </ul>
<b>STAND – ALONE ABILITY</b>
<ul style="list-style-type: none"> <li>Capable of storing 2048 cardholders, 250 access events and 32 time zones per cardholder which can be 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, WAN, driven by a powerful Windows host program</li> </ul>
<b>LOGICAL EVENTS</b>
<ul style="list-style-type: none"> <li>Can program various unique logical features using the 3 inputs and 2 TTL outputs</li> </ul>
<b>HOUSING COLORS</b>
<ul style="list-style-type: none"> <li>Available in Grey</li> </ul>



### NEW Software Option!

Now the Crystal Matrix Software™ which comes bundled with your ISONAS IP Readers is available with the Advanced Security Option (ASO) for Property Management. The new ASO is designed to enable your tenant companies to assign and manage security parameters for their own employees. The Property Manager is fully relieved of the administrative and clerical burden of frequent updates to the database!

The ISONAS IP Reader can be HID-enabled to read a variety of HID cards, including:

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



TransTech Systems, Inc.  
Toll Free: 1-888-VIDEO-ID  
Phone: 503-682-3292  
Fax: 503-682-0166  
Wilsonville, OR 97070  
www.ttsys.com