

# CLEAR2THERE ACCESS CONTROL SYSTEMS

## CLEAR2THERE REVOLUTIONIZES ACCESS CONTROL AND BUSINESS SECURITY WITH ONE SIMPLE SOLUTION

### YOUR ALL-IN-ONE SECURITY SOLUTION

Similar to the deployment of video surveillance technology, the effective implementation and use of access control solutions can provide tremendous security advantages and return on investment benefits to businesses of all types.

With Clear2there's flexible Viewbiquity Cloud Application Suite (VCAS) platform, you can custom tailor a fully integrated access control and video surveillance solution to meet the unique needs and requirements of your business operations.

Electronic locks can be installed on important entry and exit doors, and employees can carry uniquely coded electronic key-fobs that allow access to controlled areas and doors. All entries are logged and, if needed, the system can associate snapshots from deployed video cameras as an extra measure of security for access to restricted areas, such as maintenance or storage rooms. Systems can be configured to send this data to the appropriate team members as an additional safeguard. Doors can be unlocked remotely, and an administrator can view the surveillance feed to assure that proper access has been granted to the authorized individual.

### PURE IP TO THE DOOR TECHNOLOGY

Clear2there smart door readers-controllers are true network devices, designed using IP standards and technology, and connecting directly to the data network using existing LAN wiring. The panel-free system delivers real-time access control and notification via email, text or text-to-voice messages to company personnel and security administrators.

Once installed, the reader-controllers use TCP/IP to open a dialogue with the Viewbiquity Edge Gateway, and await specific commands and parameters. This "plug and play" configuration is much easier to deploy than stringing special wiring, and is less time-consuming than programming and connecting to control panels.



Clear2there's streamlined installation, maintenance and integration delivers significant cost-savings, empowering businesses to intelligently leverage the investments made in their existing network infrastructures.

Key features and benefits of a Clear2there access control system include:

- **Simplicity:** Our all-in-one reader-controller device is easy to install and connects via an Ethernet connection without the need for additional power at the door. It provides uninterrupted decision-making intelligence even if your network goes down.
- **Scalable:** A reader-controller sends mere kilobytes of data across the network, minimizing network bandwidth, latency and server utilization. An unlimited number of readers and users can be supported on a system.
- **Fault-Tolerant Design:** Our intelligent reader-controllers can make access control decisions based on the Viewbiquity rules engine. Additional features are supported to associate with other events, such as activating video snapshots that can be emailed to remote devices, turning on lights, adjusting thermostats and more.
- **Network Ready:** The only panel-free system with direct connectivity to the data network. Anywhere you can send an IP message, you can control a door or access point, and easily monitor and control entry points across geographic locations.
- **Readily Adaptable:** Microsoft Windows software platform is enabled to support integration with other systems via the standard TCP/IP interface.
- **Easy-to-Deploy:** Plug and play design eases installation, and the Microsoft Windows interface is familiar to users.



## CLEAR2THERE IP BRIDGE

The Clear2there IP Bridge hardware allows you to convert panel-based access control installed at your existing doors to our pure IP solution. By replacing subpanels with a direct network connection — and eliminating the need for specialized wiring and backup power — the IP Bridge enables you to expand your system while also reducing equipment and maintenance costs tied to existing doors.

Key benefits offered by the Clear2there IP Bridge solution include:

- Can replace existing panels and eliminate the need to rip and replace existing hardware to upgrade your system
- Seamlessly allows migration to Clear2there's pure IP access control solution by bridging Wiegand systems
- Leverages existing IT network and legacy security infrastructure
- Direct IP network connectivity
- Supports both Power Over Ethernet (PoE) and PoE-Plus
- Supports standard door hardware, including Wiegand readers
- Dual network port allows interconnection of multiple IP Bridges



## CLEAR2THERE IP BRIDGE TECHNICAL SPECIFICATIONS

### CONSTRUCTION

- Flame-retardant ABS
- DIN rail mountable

### DIMENSIONS

- 6.28" X 3.55" X 2.26"

### POWER OPTIONS (FIELD SELECTABLE)

- Power Over Ethernet (PoE) (IEEE 802.3af, Class 0)
- Power Over Ethernet Plus (IEEE 802.3at, Class 0)
- DC power: < 260 mA @ 12 volts DC; < 180 mA @ 24 volts DC

### COMMUNICATION INTERFACE

- Ethernet, TCP/IP, standard RJ45
- Network-Server mode or Network-Client mode
- Field-flashable microcode
- ASYNCH communications – no network polling

### ENVIRONMENTAL

- Ambient operating temperature -40 to 50° C (-40 to 120° F)
- Operating humidity is 0 – 90% (non-condensing)

### DOOR MONITOR INPUTS

- Three configurable inputs: door sense, request to exit (REX) and optional input for flexibility (AUX)
- Wiegand inputs

### VISUAL INDICATORS

- IP Bridge power and network status indicator
- Door control status indicator for each door

### SECURITY FEATURES

- Power up diagnostics

## CLEAR2THERE READER-CONTROLLER TECHNICAL SPECIFICATIONS

### CONSTRUCTION

- Durable plastic enclosure, flame-retardant ABS, 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 style)

### ENVIRONMENTAL

- UL-294 and rated for outdoor use
- Meets FCC Part 15 certification, ambient operating temperature -40 to 50 degrees
- Celsius (-40 to 120 degrees F) , 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 proximity cards (dependent upon tag form factors)
- Proximity read speed: < 250 msec

### OPERATING FREQUENCY

- 125 kHz (dual modulation, FSK & ASK)

### COMMUNICATION INTERFACE

- Ethernet, TCP/IP, standard RJ45, interrupt-driven network host or client modes supported
- RS232 interface to connect serial devices such as pin pads and Wiegand readers
- Reset button power-cycles reader, or reset to factory defaults
- Auxiliary power output – PoE circuit can supply 0.6 amps at 12 volts to power other devices, such as an electronic lock
- Field flashable microcode – on any reader, anywhere on the network
- ASYNCH network communications – no network polling
- Powerful local mode feature set – allows most installations to operate in local mode, resulting in faster user response times, less network traffic, and reduced host system loading

### OUTPUTS

- Two TTL outputs (configurable default state), one form-C relay output (for electric lock, rated 2.0 A @ 30 VDC)

### MONITOR INPUTS

- Three configurable inputs: door sense, request to exit (REX) and optional input for flexibility (AUX)

### VISUAL INDICATORS

- Two LED indicators signal the reader-controller's current status
- Network LEDs show the reader is connected and is receiving/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, and void-all

### PROTECTION

- Optical tamper switch and internal power up diagnostics

### NETWORK ABILITY

- LAN, driven by a powerful Microsoft Windows host program

### READER CONTROLLER CARDS

- HID-enabled to read a variety of HID prox cards, including Proxcard II, ISOProx II, DuoProx II, Smart DuoProx II, iCLASS Prox, and Proxkey II
- MicroProx, DuoProx, and PhotoProx



**CLEAR2THERE**  
2904 West 10th Street  
Sioux Falls, SD 57104

Tel: 888.201.7075  
Email: info@clear2there.com  
Web: www.clear2there.com