

UDC Technical Data Sheet

iTRUST Unified Digital Controller (UDC)

The iTRUST Unified Digital Controller (UDC) is an intelligent IP-based dual door control panel that was designed for direct access control applications up to 32 doors in size. As the engine for iTRUST's web-based access control solution, the UDC delivers the power, technology and mobility required to secure any type of facility in real-time, from anywhere, via a smartphone, tablet or browser-enabled mobile device. The UDC is the industry's first 2-door, Power Over Ethernet Plus (PoE+) web based access controller. It was designed for simple plug-and-play installation, and can be powered by either a PoE+ switch or local plug in transformer. When utilizing its PoE+ power option, the UDC can facilitate enough power to the door to operate two 1,800 pound mag locks per controller. iTRUST's UDC intelligent controller is one of the few commercially available PoE+ panels that comes in a 2 door single board configuration - with a massive power budget of 800mA per door (vs. 450mA industry average).

The UDC is delivered in two unique iTRUST system packages that level the playing field for all security installers:

- The M Series - a standard, IP based system with traditional metal locking enclosure and separate Altronix power supply to power locks, readers and additional door hardware.
- The P Series - an edge-based IP POE+ powered solution (one Ethernet cable to the box delivering communication and power).

These two options are designed to meet the end customer's specific security requirements while conforming to every individual security installer's networking expertise, historical installation experience and technical comfort level.

iTRUST 2.0 empowers any type of organization in need of access control with processing power, ease of installation, mobility and a modern 100% IP solution.

Utilizing a Linux-based operating system for stability, the UDC is a "server-less" web-based edge appliance capable of operating as a stand-alone single board computer at the door. The UDC makes entry and exit decisions in zero degraded mode and all system software and firmware version updates can be accomplished over a web browser via the internet. The UDC's remote internet configuration, reporting and management capability (from any industry standard browser) and the iTRUST access system's affordable price, sustainable power savings and low total cost of ownership - make it the perfect choice in turn-key access control solutions.



Readers

Quantity	2
Configurations	2 Doors (Entry/Entry) or Single Door (Entry/Exit)
Card Format	26 bit Wiegand
LED Support	Single or Dual Color per Reader
Buzzer Support	1 per Reader
Supplied Power	12 VDC

Inputs

Supervised	2 Door position 2 Alarm or General Purpose
Non-Supervised	2 Tamper 2 Request to Exit 4 Alarm or General Purpose

Outputs

Relay Outputs	2 Door Lock 2 Alarm: ON - door forced or door propped timeout 2 Spare
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Field Device Communications

Protocol	TCP/IP
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Memory

SD Flash Card Memory	8 GB
On-Board Flash Memory	256 MB (2 x 128 MB)
Random Memory	64 MB
Cardholders	10,000 records
Event Storage	50,000 capacity

Electrical

Power	12 VDC
Current Draw	360 mA (4.32 watts)

Dimensions

Length	8.27 in (210 mm)
Width	4.46 in (113.2 mm)
Height	1.00 in (25.4 mm)

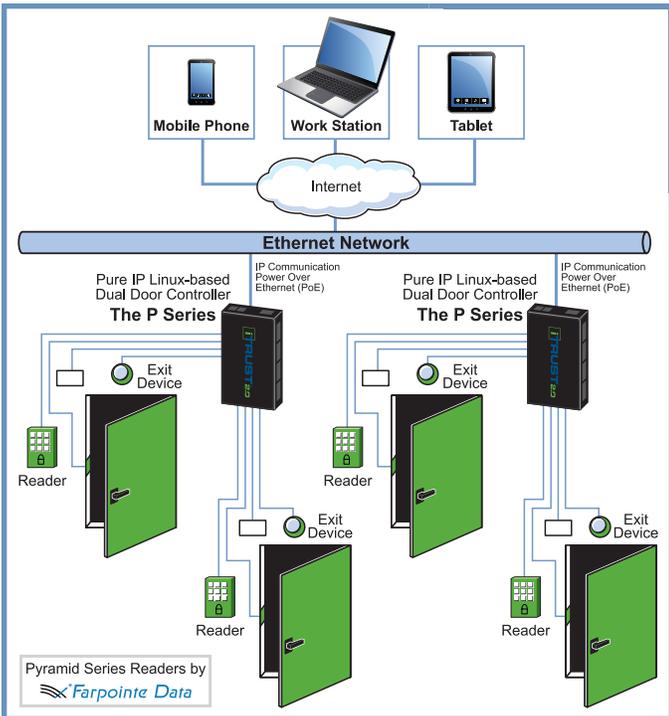
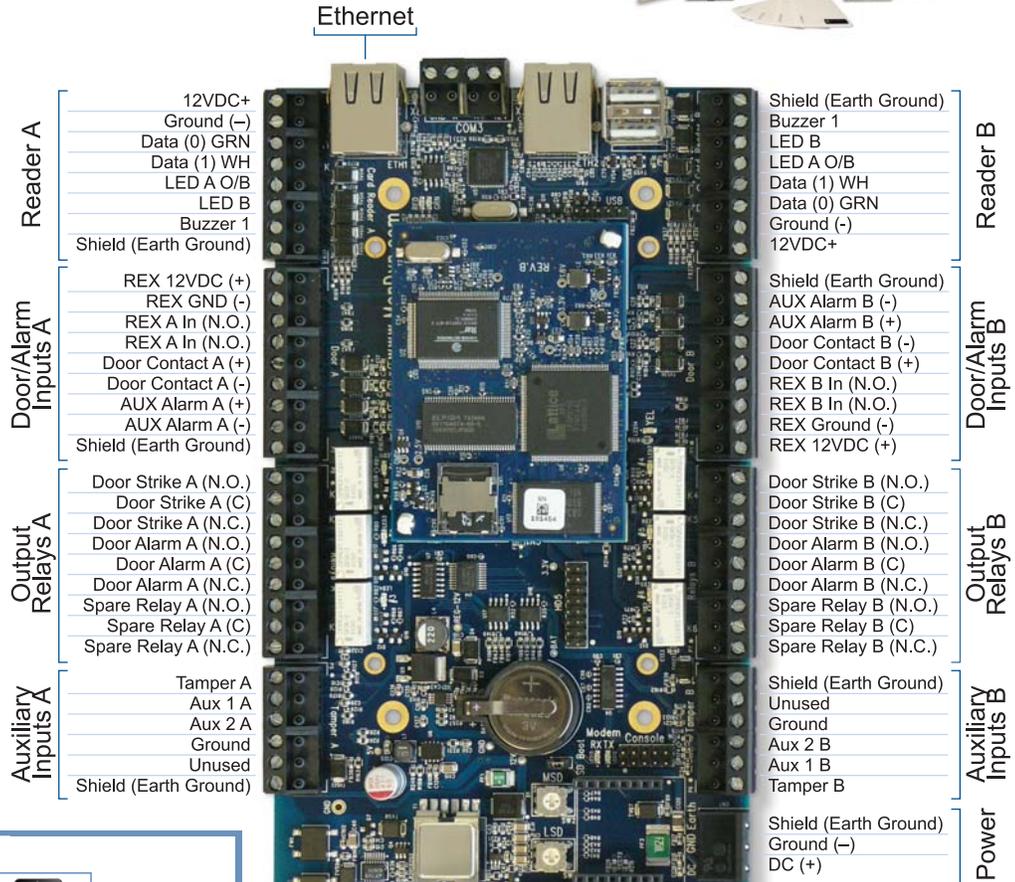
Environment

Temperature	32°F-158°F, (0°C-70°C)
Humidity	Up to 90% (non-condensing)



Primary UDC Features:

- Facilitates 1.6 AMPs of Power from a PoE+ Switch
- “Serverless” Web-based System
- Configurable Email Notifications
- System Backup On Demand
- Energy Efficient and Environmentally Friendly Operation
- Linux Operating System
- Remote Internet Configuration - Any Browser
- Support for up to 32 Doors (16 UDC Panels)
- Wiegand Reader Input
- 250/800 MHz ARM Processor with 64 MB External Memory: Expandable
- Designed to Scale Seamlessly into the Enterprise-level SAFEnet System if Required*



* Seamless Migration Path



sustainable eco-friendly technology

Although iTRUST was designed for access control installations of up to 32 doors, it offers enterprise scalability options and a seamless migration path utilizing the same UDC hardware infrastructure. iTRUST has the flexibility to transform into an enterprise-grade fully integrated global system called SAFEnet with the capacity to service over one million cardholders if required. SAFEnet is MonDYN's enterprise-grade system and is deployed across numerous military bases, federal agencies and hundreds of other high security and classified sites across the US and internationally.