



## Unified Digital Controller (UDC)

The Universal Door Controller (UDC) is a revolutionary hardware technology engineered to give customers unmatched flexibility and performance. Designed with an open, future-ready architecture, the UDC enables seamless integration with third-party systems, and is at the core of Monitor Dynamics SAFEnet and iTRUST access control solutions, providing organizations with a single, intelligent controller that simplifies deployments, reduces costs and enhances scalability.

### UDC Hardware Specifications\*

The UDC is designed for unified access control and intrusion detection applications. The UDC is the industry's first Power over Ethernet (PoE) IP-based digital controller. Powered by Monitor Dynamics' BlueEdge Technology, the UDC delivers simple plug-and-play installation utilizing PoE power and reducing overall installation cost and configuration time. The UDC empowers organizations with the processing capacity required for the largest enterprise-wide access and intrusion applications. The UDC is a dual-port Ethernet IP panel that transmits entry and exit data via high speed communications. Utilizing a Linux-based

processor for stability, the UDC communicates to the head-end with complete fail-over, at rates exponentially faster than standard serial based communications.

As a scalable hardware device located at the edge of the network, the UDC comes with three downstream RS-485 communication ports, two of which can be used to connect various combinations of field hardware, including additional UDC panels (up to 31 devices). The third port is reserved for future expansion. As an enterprise-grade controller, the UDC scales to support 250,000 cardholders and 50,000 events - standard.

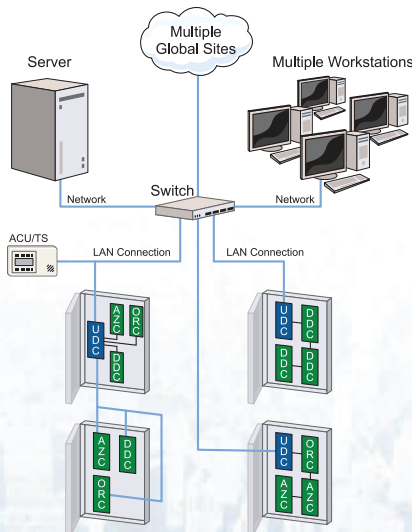
### Features:

- Low cost and easy installation
- Full-featured and expandable as needed
- Intelligence at the edge of the network
- Remote internet configuration capability
- Lower overall price and total cost of ownership
- Seamless scalability to enterprise global command and control
- Works with all prior hardware lines on the SAFEnet platform
- Communicates via TCP/IP network to the command center
- Operates with or without host computer connectivity (stand alone)

## Extreme Affordability and Unlimited Scalability

### Primary Panel Features:

- POE (Power over Ethernet) Compatibility
- 32GB SD Flash Memory
- Supports up to 250,000 Card Holders\*\*
- Supports up to 50,000 Events in Buffer\*\*
- IPV4 Compatible, IPV6 Capable
- Unlimited Privileges and User Profiles
- Support for Unlimited Areas (Timed, Hard, Soft & Global)
- Flash Updatable Firmware
- 2 x 128 MB Flash Memory (Expandable to 2 x 256 MB Flash Memory - 512 MB)
- Dual (2) Reader Interface
- Support for 60+ Doors
- Unlimited Holidays, Shifts and Time Zones
- Option for Audio/Video via USB
- Dual Path Ethernet Communication (2 Network IP Addresses/MAC Addresses)
- Web Based Setup and Configuration (Local and Remote Diagnostics)
- Reader Inputs: Wiegand, Magnetic and Smart Card Readers (up to 256 Bits)
- 250/800 MHz ARM Processor with 64 MB External Memory Expandable to 800 MHz ARM Processor with 256 MB of External Memory
- AES 128 Bit Encryption to the Host (Optional 256 Bit Available)



\* Specifications are subject to change without notice.  
\*\* The number of cardholders and events can be increased exponentially and is limited only by processor speed, firmware and software version and size of SD Memory Card.





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### Primary Panel Features:

#### Readers

Quantity	2
Configurations	2 Doors (Entry/Entry) or Single Door (Entry/Exit)
Types	Magstripe, Wiegand, Proximity, Barcode, Biometric, and SmartCard
Card Formats	Standard and Custom
LED Support	Single or Dual Color per Reader
Buzzer Support	1 per Reader
Supplied Power	+5 VDC @ 100mA total or direct DDC input voltage

#### Inputs

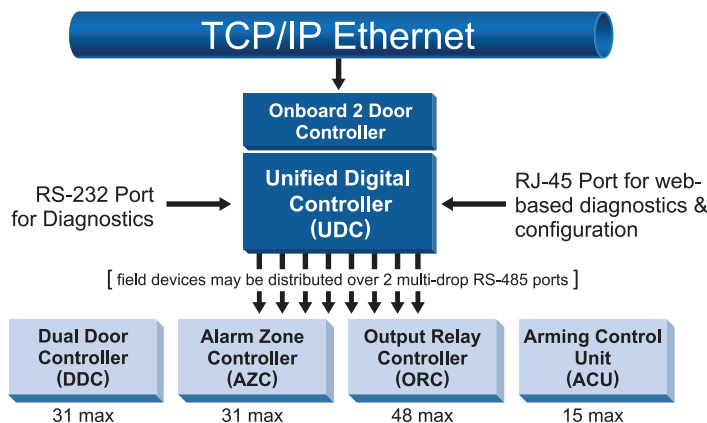
Supervised	2 Door position 2 Alarm or General Purpose
Non-Supervised	2 Tamper 2 Request to Exit 4 Alarm or General Purpose

#### Outputs

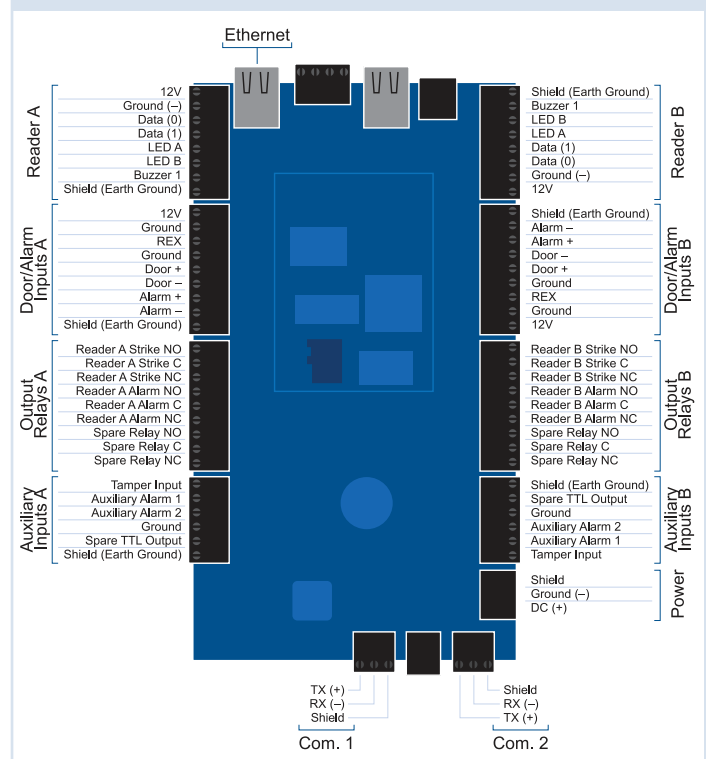
Relay Outputs	2 Door Lock 2 Alarm: ON - door forced or door propped timeout, PULSING - door propped warning 2 Spare
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#### Field Device Communications

Protocol	RS-485, 19.2Kbps
Number of Channels	2
Distance	4,000 feet per channel
Media Type	Twisted Pair (Belden 9841 cable)



### UDC Board Details



Design and specifications subject to change without notice.

#### Memory

SD Flash Card Memory	32 GB
On-Board Flash Memory	256 MB (2 x 128 MB)
Random Memory	64 MB
Cardholders	60,000 records
Event Storage	10,000 capacity when off-line

#### 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)

