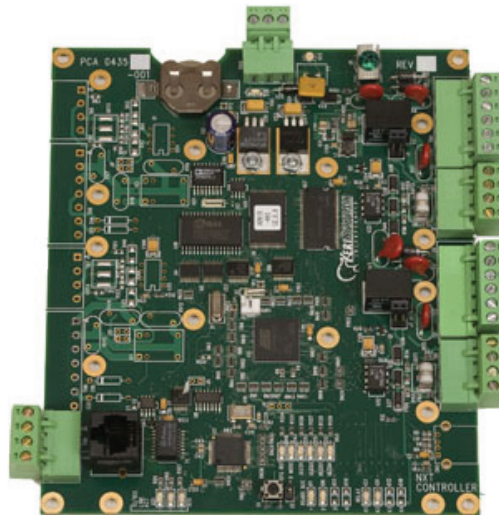# NXT - 2D
NetXtreme 2 Door TCP/IP Controller

- 2 - Door Controller for Keri's *Doors NetXtreme* product line
- On-board TCP/IP connectivity - no network adapters required
- Ethernet (TCP/IP) network architecture between controllers (true peer-to-peer) and to Host Server
- Utilize existing LAN/WAN/Ethernet or pull your own dedicated CAT-5/6 Network
- Embedded MAC Address for one button AutoConfiguration
- Standard 4 Pin Block and RJ-45 Jack built-in for network connection
- Re-assignable Inputs and Outputs
- Quick Disconnect Connectors
- Flash Memory for easy firmware upgrades
- 50,000 Cardholders, 10,000 Selectable Event Buffer
- Locking Metal Enclosure (optional without)
- 128 Bit Encryption

The *NXT-4D Xtreme 2 Door Controller* is built for today's IT environments. With Ethernet functionality built directly into the controller. Keri's propriatary MAC addressing scheme allows for reliable hardware discovery and true 1 button autoconfiguration. Networking between NXT-2D controllers and/or its sister *NXT-4D NetXtreme 4 Door Controller* also utilize peer-to-peer standards. The NXT-2D is designed to be extremely intelligent with little reliance on network traffic for decision making, allowing it to be extremely thrifty with any network's valuable bandwitdth.

To expand the system's capabilities, up to two companion 4x4 Input/Output boards (NXT-4x4) can be added - one to each of the controller's RS-485 trunks (busses). Customers can choose between Keri's new line of highly secure, 4-wire *NXT Series Proximity Readers* with reader supervision, or any reader with a standard Wiegand output or Keri's *MS Series Proximity Readers* via the *NXT-RM3 Reader Interface Module*. To manage the system, *Doors NetXtreme* software has much of the same look and feel as Keri's acclaimed original *Doors*TM software, but with the added functionality of a Client/Server architecture.
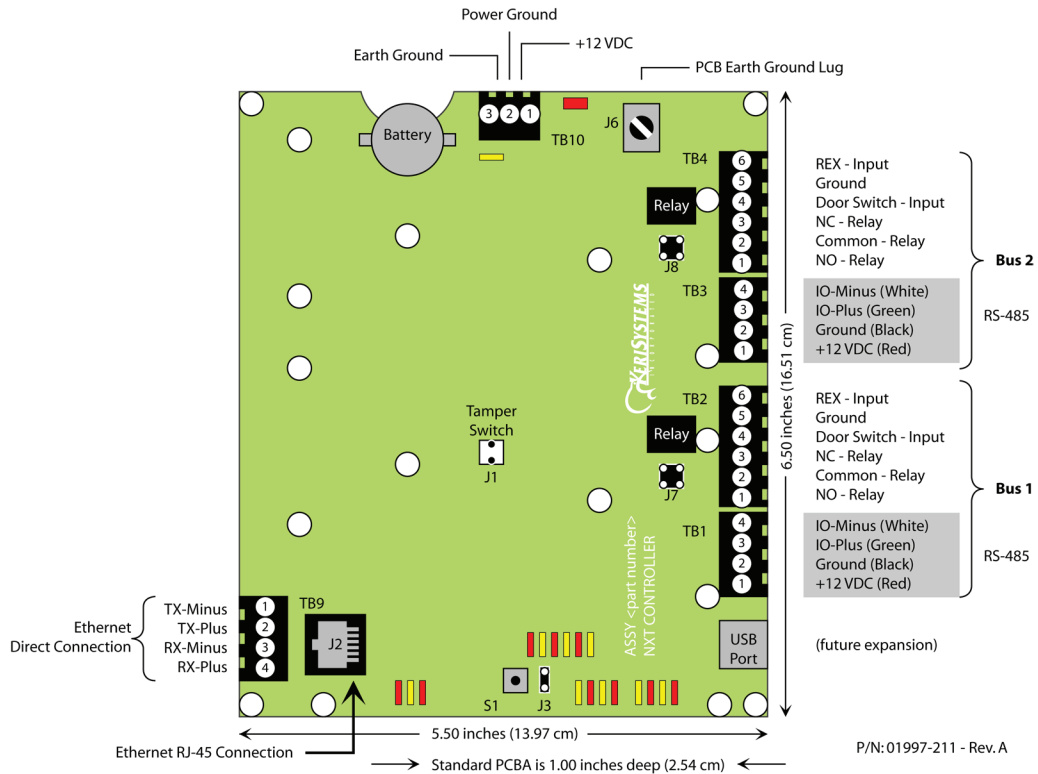
NXT - 2D
NetXtreme 2 Door TCP/IP Controller

Power Ground

Earth Ground

+12 VDC

PCB Earth Ground Lug

Battery

TB10

J6

TB4

Relay

J8

TB3

TB2

Relay

J7

TB1

Tamper Switch

J1

USB Port

Ethernet Direct Connection
TX-Minus
TX-Plus
RX-Minus
RX-Plus

TB9

J2

S1   J3

ASSY <part number> NXT CONTROLLER

Bus 2
REX - Input
Ground
Door Switch - Input
NC - Relay
Common - Relay
NO - Relay

IO-Minus (White)
IO-Plus (Green)
Ground (Black)
+12 VDC (Red)
RS-485

Bus 1
REX - Input
Ground
Door Switch - Input
NC - Relay
Common - Relay
NO - Relay

IO-Minus (White)
IO-Plus (Green)
Ground (Black)
+12 VDC (Red)
RS-485

(future expansion)

6.50 inches (16.51 cm)

Ethernet RJ-45 Connection

5.50 inches (13.97 cm)

Standard PCBA is 1.00 inches deep (2.54 cm)

P/N: 01997-211 - Rev. A

SPECIFICATIONS:

Size (Enclosure)
13.125" H x 10.625" W x 3.06" D
(33.34 cm x 26.99 cm x 7.77 cm)

Size (PC Board)
5.6" H x 6.6" W x 2.55" D
(14.28 cm x 16.83 cm x 2.55 cm)

Weight (In Enclosure)
4.95 Lbs (2.25 Kgs)

Input Voltage
+ 12 VDC nom. (10 - 14 VDC)

Current Draw
570 mA typical

Inputs (4, reassignable)
Door Contact Switch (2)
Request to Exit (2)
Expandable up to 12 Inputs

Outputs (2, reassignable)
1.0 amp (24 VDC max.) dry circuit
Expandable up to 10 Outputs

Buffer Capacity
50,000 Cardholders
10,000 Events

Temperature / Humidity
-40° F to 140° F
(-40° C to 60° C)
0-90% Non Condensing

Communication
To Server: TCP/IP 10/100 bus
Between Controllers: TCP/IP 10/100 bus

Lithium Battery
5 years Memory Retention

Presented By:

KERI SYSTEMS INCORPORATED

November 2007