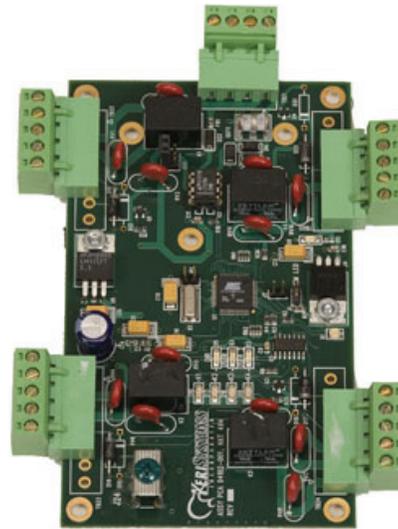# NXT - 4x4
Input/Output Expansion Module

- 4 auxiliary Inputs and 4 auxiliary Outputs per module
- Up to 4 modules (16 Inputs and Outputs) can be added per NXT-4D Controller, up to 2 modules (8 Inputs and 8 Outputs per NXT-2D Controller
- Re-assignable, Interchangeable with controller's door I/O
- 4-State Supervision on Inputs
- Can be used for Door Forced and Door Held Open Alarms as well as Auxiliary REX Inputs, Latch Integrity, Bond Sensor, or other general purpose functions
- Flash Memory for easy upgrades
- Powered from Controller (standard) or optional standalone power supply
- Status Indicator LEDs for power, communication, and relay position
- Quick Disconnect Connectors
- Locking Metal Enclosure (optional without)
- Reduces wiring by providing capability to move door management functions to the door location

The *NXT-4D Input/Output Expansion Module* provides functionality to any **Doors NetXtreme** access control system by adding auxiliary I/O that can be used for additional access control functionality, monitoring non-reader doors or other devices, and creating powerful action sequences by linking input triggers to outputs. The module can be connected anywhere along the RS-485 trunk/buss, most commonly at the controller or near a reader. One module can be added per trunk, allowing up to an extra 8 inputs and 8 outputs on an *NXT-2D Controller* and an extra 16 inputs and 16 outputs on an *NXT-4D Controller*.

The module's relays are re-assignable and interchangeable with the main controller's relays. The module can be mounted next to the door providing local door control and local door alarm functions while minimizing the cable bundle from door to controller. The unit also has a port to plug in an *NXT-RM3 Reader Interface Module* to allow Keri MS reader signals to be sent down the RS-485 line.
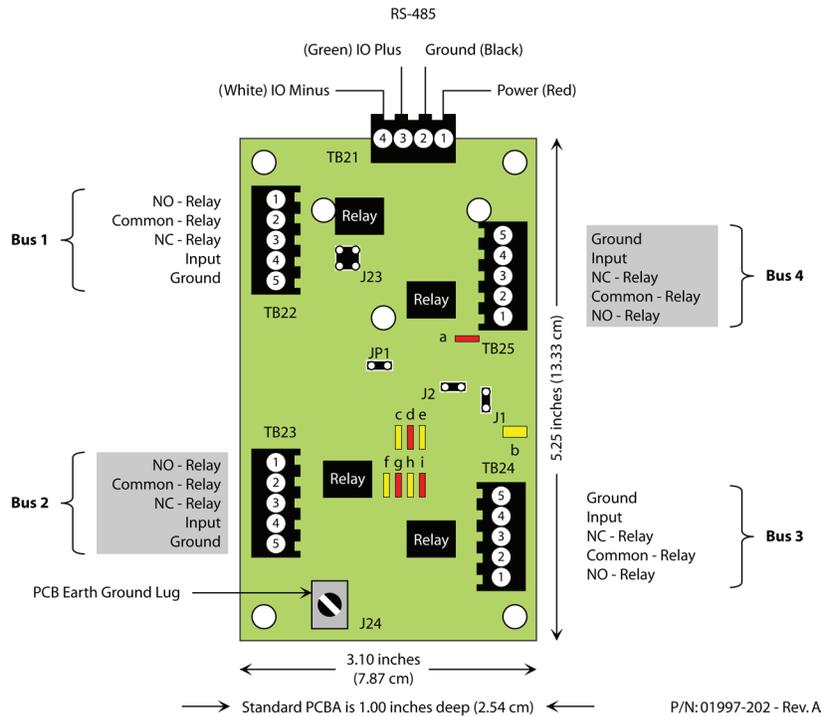
NXT - 4x4
Input/Output Expansion Module

RS-485

(Green) IO Plus   Ground (Black)

(White) IO Minus   →   Power (Red)

4 3 2 1

TB21

Bus 1
- NO - Relay
- Common - Relay
- NC - Relay
- Input
- Ground

1 2 3 4 5   Relay   J23

TB22

Relay

JP1

Bus 4
- Ground
- Input
- NC - Relay
- Common - Relay
- NO - Relay

5 4 3 2 1

a   TB25

5.25 inches (13.33 cm)

J2

c d e

J1

b

TB23

Bus 2
- NO - Relay
- Common - Relay
- NC - Relay
- Input
- Ground

1 2 3 4 5   Relay

f g h i

TB24

Relay

Bus 3
- Ground
- Input
- NC - Relay
- Common - Relay
- NO - Relay

5 4 3 2 1

PCB Earth Ground Lug

J24

3.10 inches (7.87 cm)

Standard PCBA is 1.00 inches deep (2.54 cm)   P/N: 01997-202 - Rev. A

SPECIFICATIONS:

Size (Enclosure)
8" H x 7" W x 2.75" D
(20.32 cm x 17.78 cm x 6.98 cm)

Size (PC Board)
5.25" H x 3.10" W x 1" D
(13.33 cm x 7.87 cm x 2.54 cm)

Weight (In Enclosure)
2.5 Lbs (1.14 Kgs)

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

Current Draw
250 mA typical

Inputs
4 general purpose Inputs or
configurable in software to:
- Door Contact Switch
- Request to Exit
- Bond Sensor

Outputs
4 general purpose Outputs/Relays
1.0 amp (24 VDC max.) dry circuit

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

Communication
To Controller: RS-485

Lithium Battery
5 years Memory Retention

Presented By:

KERISYSTEMS
INCORPORATED

P/N 01794-001 Rev. C   November 2007