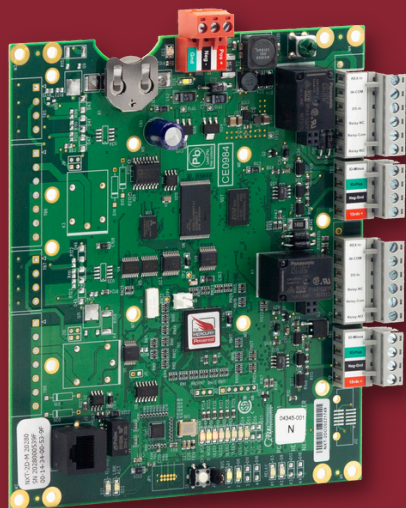


# NXT-2D Controller

## Data Sheet



### Key Features

2 Door/4 Reader Controller for Keri's NXT product line

On-board TCP/IP connectivity – no network adapters required

Manages 2 doors with In/Out capability when using NXT Readers

Utilize existing LAN/WAN/Ethernet or pull your own dedicated CAT-5/6 Network

Embedded MAC Address for one button Auto-Configuration

Standard 4 Pin Block and RJ-45 Jack built-in for network connection

Re-assignable Inputs and Outputs

Quick Disconnect Connectors

48,000 Cardholders, 10,000 Event Buffer

Locking Metal Enclosure (no-enclosure option)

128 Bit Encryption

### NXT-2D Controllers

The NXT-2D Controller is built for today's IT environments. By using an existing TCP/IP network, controller cabling costs can be eliminated. Or, if building a new network, they can be reduced up to 50% over traditional hard-wired access systems by using inexpensive, shielded CAT-5 cable. The NXT-2D is designed to be extremely intelligent with little reliance on network traffic for decision making, allowing it to be thrifty with any network's valuable bandwidth. With Ethernet functionality built directly into the controller. Keri's proprietary MAC addressing scheme allows for reliable hardware discovery and true one-button autoconfiguration.

To expand the system's capabilities, up to four companion 4X4 Input/Output boards (NXT-4X4) can be added - one to each of the controller's RS-485 trunks (buses). Customers can choose between Keri's line of highly secure, 4-wire NXT Series Proximity Readers with reader supervision that also provide In/Out reading capability (4 readers), 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.NET software has much of the same look and feel as Keri's acclaimed original Doors™ software, but with the added functionality of a Client/Server architecture

Keri offers NXT Controllers with optional Mercury Firmware to provide enhanced functionality

Note: Controller shown without included enclosure

## NX-2D Controller Specifications

|  |  |
|--|--|
| <b>NXT-2D</b>                                | Supports a typical access control feature set for 2 doors and 2 readers (4 including exit readers) using a Mercury-powered firmware  |
| <b>Features</b>                              | Storage for up to 48,000 cardholders and 10,000 events   |
|  | 128-bit Encryption   |
|  | Door Control - up to 2   |
|  | Access Groups - up to 32 per cardholder  |
|  | 255 Time Schedules and Holidays per list, supports Vacation Days and Special Event Days  |
|  | Support for Allegion AD Series and Assa Abloy Aperio wireless lock sets  |
|  | <b>Hardware</b>  |
| <b>Controller Voltage</b>                    | '+12 VDC nominal (10 to 14 VDC) @ 2.5 A (maximum current draw for a fully loaded 4D controller)                                      |
| <b>Current Draw (maximums)</b>               | Per Controller: 570 mA   |
|  | Per Bus: 125 mA  |
|  | Per 4x4: 210 mA  |
|  | Per NXT Reader: 85 mA  |
|  | Per NXT-6RK Reader: 115 mA   |
|  | Per RM3/WI-Plus: 50 mA   |
| <b>Battery</b>                               | Lithium, 5-year memory retention, CR2325   |
| <b>Reader Capacity (MSC controller only)</b> | 4 when using NXT Readers (2 entrance, 2 exit), 2 when using Wiegand or Keri MS readers (requires a RM3 or WI-Plus module per Reader) |
| <b>Inputs</b>                                | 4, reassignable, 2 - Door Contact, 2 - Request to Exit, expandable to 10 Inputs when using 4x4 I/O Expansion Modules                 |
| <b>Output Relays</b>                         | 2, reassignable, 1.0 A, 24 VDC maximum, dry circuit, Form C - expandable to 10 Outputs when using 4x4 I/O Expansion Modules          |
| <b>Host Communication</b>                    | Ethernet, 10-BaseT/100BaseTX   |
|  | <b>Cabling</b>   |
| <b>Control Power</b>                         | 18 AWG, 2 conductor, stranded, 250 ft. (75 m) maximum run  |
| <b>Earth Ground</b>                          | 18 AWG, 1 conductor, solid, shortest path to earth ground  |
| <b>Inputs/Outputs</b>                        | 22 AWG, 2 conductor, stranded, 500 ft. (150 m) maximum run   |
| <b>Bus to Reader Only - Power</b>            | 18 AWG, 2 conductor, stranded, 1,000 ft. (300 m) maximum run   |
| <b>Bus to Reader Only - Data</b>             | 22 AWG, 2 conductor, stranded, shielded, twisted pair, 1,000 ft. (300 m) maximum run   |
| <b>Bus to Reader/ Peripherals - Power</b>    | 18 AWG, 2 conductor, stranded, 500 ft. (150 m) maximum run   |
| <b>Bus to Reader/ Peripherals - Data</b>     | 122 AWG, 2 conductor, stranded, shielded, twisted pair, 500 ft. (150 m) maximum run  |
| <b>Ethernet</b>                              | CAT-5, minimum   |

## NX-2D Controller Specifications

|                       |   |
|-----------------------|---|
|                       | <b>Operating Environment</b>  |
| <b>Temperature</b>    | -40° F to 140° F (-40° C to 60° C)  |
| <b>Humidity</b>       | 0-90%, Non Condensing   |
|                       | <b>Mechanical Specifications</b>  |
| <b>Dimensions</b>     | In Enclosure - 13.125 in H x 10.625 in W x 3.06 in D (33.34 cm H x 27 cm W x 7.77 cm D)<br>Board Only - 6.6 in H x 5.6 in W x 2.55 in D (16.83 cm H x 14.26 cm W x 2.55 cm D) |
| <b>Weight</b>         | Including Enclosure - 5 Lbs (2.27 Kgs) -- Board Only - 6.72 oz (190.5 g)  |
|                       | <b>Compliance and Product Warranty</b>  |
| <b>Certifications</b> | CE, FCC, CSA Std. C22.2, UL294  |
| <b>Warranty</b>       | Two year, no questions asked, replacement warranty  |
|                       | <b>Ordering Information &amp; Related Products</b>  |
| <b>Model Number</b>   | <b>Description</b>  |
| NXT-2D                | 2 Door/4 Reader NXT Controller with Mercury firmware with Enclosure   |
| NXT-2D-NE             | 2 Door/4 Reader NXT Controller with Mercury firmware without Enclosure  |
| KPS-3                 | Power Supply - 12VDC @2.8A, with enclosure, output battery ready  |
| KPS-3NE               | Power Supply - 12VDC @2.8A, no enclosure, output battery ready  |
| ENC-KE1               | Single Controller Enclosure   |
| KE-8                  | 4 Panel Enclosure   |
| NXT-4X4               | 4 Input/4 Output Auxiliary I/O and Local Door Control Module with Enclosure   |
| NXT-4X4-NE            | 4 Input/4 Output Auxiliary I/O and Local Door Control Module without Enclosure  |
| NXT-1R                | EuroMount NXT Proximity Reader for NXT Controllers, access/entry version  |
| NXT-1RE               | EuroMount NXT Proximity Reader, exit/egress version   |
| NXT-3R                | Mullion Mount NXT Proximity Reader for NXT Controllers, access/entry version  |
| NXT-3RE               | Mullion Mount NXT Proximity Reader for NXT Controllers, exit/egress version   |
| NXT-5R                | Wall Mount NXT Proximity Reader for NXT Controllers, access/entry version   |
| NXT-5RE               | Wall Mount NXT Proximity Reader for NXT Controllers, exit/egress version  |
| NXT-6RK               | NXT Proximity Reader and Keypad for NXT Controllers   |
| NXT-RM3               | Reader Interface Module - Wiegand and MS Reader compatibility   |
| NXT-WI-Plus           | Wiegand Interface Module - Wiegand Reader only compatibility  |
|                       | <b>Specifications are subject to change without notice</b>  |