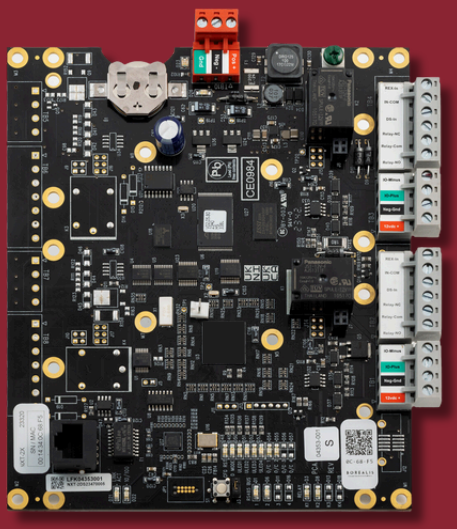
NXT-2D Controller

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 DoorsTM 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	
NXT-2D	Supports a typical access control feature set for 2 doors and 2 readers (4 including exit readers) using a Mercury-powered firmware
Features	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
	Hardware
Controller Voltage	'+12 VDC nominal (10 to 14 VDC) @ 2.5 A (maximum current draw for a fully loaded 4D controller)
Current Draw (maximums)	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
Battery	Lithium, 5-year memory retention, CR2325
Reader Capacity (MSC controller only)	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)
Inputs	4, reassignable, 2 - Door Contact, 2 - Request to Exit, expandable to 10 Inputs when using 4x4 I/O Expansion Modules
Output Relays	2, reassignable, 1.0 A, 24 VDC maximum, dry circuit, Form C - expandable to 10 Outputs when using 4x4 I/O Expansion Modules
Host Communication	Ethernet, 10-BaseT/100BaseTX
	Cabling
Control Power	18 AWG, 2 conductor, stranded, 250 ft. (75 m) maximum run
Earth Ground	18 AWG, 1 conductor, solid, shortest path to earth ground
Inputs/Outputs	22 AWG, 2 conductor, stranded, 500 ft. (150 m) maximum run
Bus to Reader Only - Power	18 AWG, 2 conductor, stranded, 1,000 ft. (300 m) maximum run
Bus to Reader Only - Data	22 AWG, 2 conductor, stranded, shielded, twisted pair, 1,000 ft. (300 m) maximum run
Bus to Reader/ Peripherals - Power	18 AWG, 2 conductor, stranded, 500 ft. (150 m) maximum run
Bus to Reader/ Peripherals - Data	122 AWG, 2 conductor, stranded, shielded, twisted pair, 500 ft. (150 m) maximum run
Ethernet	CAT-5, minimum

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NX-2D Controller Specifications	
	Operating Environment
Temperature	-40˚ F to 140˚ F (-40˚ C to 60˚ C)
Humidity	0-90%, Non Condensing
	Mechanical Specifications
Dimensions	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)
	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)
Weight	Including Enclosure - 5 Lbs (2.27 Kgs) -- Board Only - 6.72 oz (190.5 g)
	Compliance and Product Warranty
Certifications	CE, FCC, CSA Std. C22.2, UL294
Warranty	Two year, no questions asked, replacement warranty
	Ordering Information & Related Products
Model Number	**Description**
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
	Specifications are subject to change without notice

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