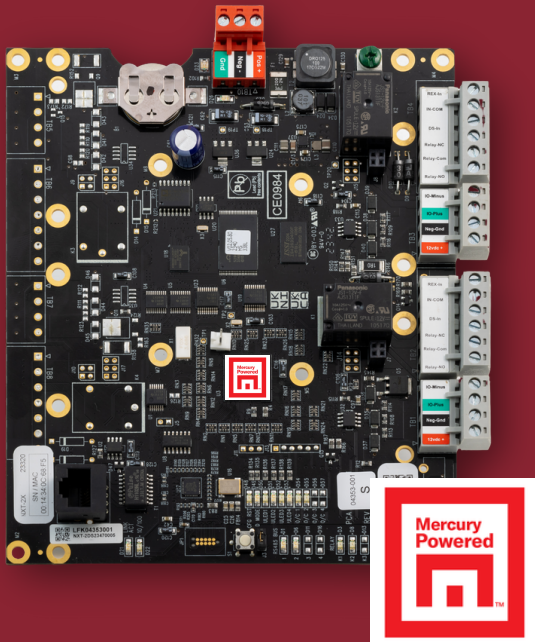


NXT-2D-MSC Controller

Data Sheet



Key Features

Provides more functionality, and more features than standard NXT controllers

Doubles controller capacity with NXT readers when in/out reading is required

Advanced Local Linkage allows design of sophisticated I/O linkage macros

Provides advanced Elevator Control with Floor Select reporting

Allows for Area Control, Anti-Passback and Occupancy

Temporary cards by use count, supervisor cards, man-trap, and 2-man rule

Support for select Integrated Electronic Locks from Assa Abloy, Allegion, and dormakaba

Credential Types "format builder" to handle any Wiegand format

OSDP Reader Support

Mercury Powered NXT Controllers

Keri Systems has partnered with Mercury Security to bring enhanced capabilities to its Doors.NET customers that use the NXT hardware platform of TCP/IP-based controllers. By embedding Mercury Firmware in NXT Controllers a whole new set of features become available for applications with more sophisticated and customized requirements. This broadens the scope of NXT hardware capability such that it makes it a good choice for high-end and Enterprise applications as well as mid-sized projects that demand high end features.

The NXT-MSC controller has all of the hardware advantages the Standard NXT controller has. 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.

The NXT-MSC 2D/4D 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 auto-configuration.

For applications that require more specialized or sophisticated features, NXT Controllers are available with Mercury firmware to provide a higher level of functionality than standard NXT controllers.

For installations requiring UL294 certification, add -UL to each model number.
Note: Controller shown without enclosure

NXT-MSC-2D Controller Specifications

NXT-MSC-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 100,000 credentials and 10,000 events depending upon software
	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 select Integrated Electronic Locks from Assa Abloy, Allegion and dormakaba
	Hardware
Controller Voltage	+12 VDC nominal (10 to 14 VDC) @ 1.2A (maximum current draw for a fully loaded 4D controller)
Current Draw (maximums)	Per Controller Fully Loaded: 1.2A
	No busses loaded; 570mA
	Current draw available per bus of an NXT controller: up to 250mA @12VDC
	4X4; 250mA, (assumes a 4X4 with RIM loaded, reader attached and 4 relays energized)
	RIM; 50mA with no reader attached. Attached reader draw would need to be added
	NXT reader; 85mA (All NXT R readers)
Battery	Lithium, 5-year memory retention, CR2032
Reader Capacity (MSC controller only)	4 when using NXT Readers or OSDP 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

NXT-MSC-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-MSC	2 Door/4 Reader NXT Controller with Mercury firmware with Enclosure
NXT-2D-MSC-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
NXT-XD-MSC-UL	<i>For installations requiring UL294 certification, add -UL to each model number.</i>

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