



# Neutron™ Economical Single-Door Controller

DATA SHEET

*Up to 8 Neutron controllers can be networked together to provide a small system, with the option of "in" and "out" readers.*



- Economical mini-controller for a single door
- Works exclusively with Keri's *Visual Doors™* software
- Networkable via RS-485 for up to 8 controllers
- Supports Keri NXT and NXT-E readers
- Capable of In/Out access using Keri's a NXT-E reader in conjunction with a standard NXT reader
- 1000 credential capacity
- 4000 Event buffer (offline)
- Equipped with dedicated inputs for REX & Door Sense
- Form "C" Relay for door control
- Configurable for: Lock Time, Auto Unlock by time
- 8 Access Groups configurable per credential
- Same small footprint as Keri's Intelliprox Blue™ and sharing the same enclosure
- CE, FCC, RCM, CE-Red and IC certifications

**Note:**  
*The minimum supported revision of Doors.NET/Visual Doors is v4.3.5*

Keri's **Neutron Controller** is a small, low cost, single-door controller. Up to 8 Neutron mini-controllers may be attached to a RS-485 network, originating at a PC or Keri appliance, to control 8 doors with the option of using both in/out readers.

Neutron has been designed with low cost and small physical size in mind, yet maintains a powerful feature set, nearly equal to Keri's NXT controllers. In fact, Neutron runs on the Visual Doors version of Keri's Door.NET software and maintains a 1000 credential capacity and a 4,000 event buffer (offline).

The Neutron controller is designed to work with Keri's NXT readers in both 125kHz and 13.56MHz. Traditional 125 kHz Wiegand readers and keypads are not supported. Supplied inputs and relay outputs are fixed to supporting REX (Request to Exit), DPS (Door Position Switch) and door relay.



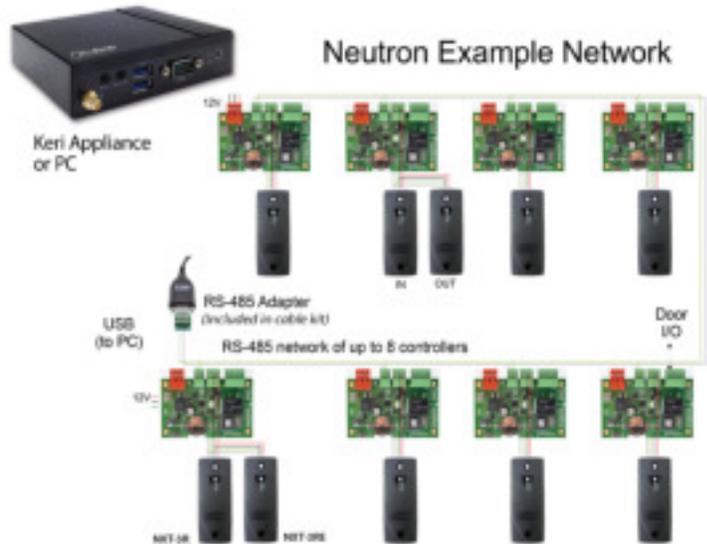
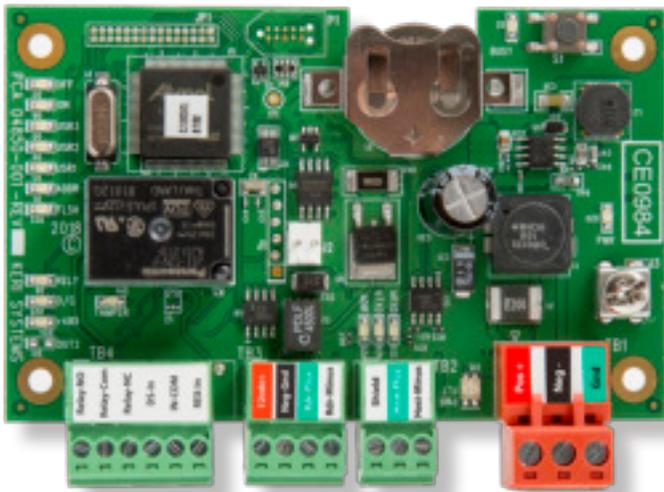
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## SPECIFICATIONS:

**Small Enclosure Size:**  
2.75" H x 4.25" W x 1.32" D

**Full Kit Enclosure Size:**  
7.25" H x 6.6" W x 1.8" D

**PC Board, No Enclosure Size:**  
2.36" H x 4.0" W x 0.78" D

**Input Voltage:**  
+ 12 VDC nom. (9-15 VDC)

**Current Draw:**  
NEUT Controller - 500mA-

**Inputs (2):**  
Door Contact Switch  
Request to Exit

**Outputs:**  
1.0 amp (24 VDC max.)  
dry circuit

**Reader Capacity:**  
2 using NXT Readers\*  
\*NXT 3R or 5R  
NXT 3RE or 5RE

**Buffer Capacity:**  
4,000 offline

**Temperature / Humidity:**  
-40°F to 140°F  
(-40°C to 60°C)

**Communication:**  
RS-485 (A minimum of one Neutron Communication Cable Kit is required per installation.)

**Lithium Battery:**  
5 years Memory Retention

*Note: The minimum supported revision of Doors.NET/Visual Doors is v4.3.5*

## ORDERING INFORMATION:

Model #	Description
NEUT-3R-APLKIT	Neutron Controller with both enclosures, (1) PSC-35 1.8A power supply, (1) i2 Mini-Appliance, (1) Windows® keyboard & mouse, (1) Communication Cable Kit, (1) NXT-3R Reader, (3) NXT-C Prox Cards, and (2) NXT-AP Patches
NEUT-5R-APLKIT	Neutron Controller with both enclosures, (1) PSC-35 1.8A power supply, (1) i2 Mini-Appliance, (1) Windows® keyboard & mouse, (1) Communication Cable Kit, (1) NXT-5R Reader, (3) NXT-C Prox Cards, and (2) NXT-AP Patches
NEUT-3R-KIT	Neutron Kit with both enclosures, (1) NXT-3R reader, (1) PSC-35 1.8A power supply, (3) NXT-C & (2) NXT-AP
NEUT-5R-KIT	Neutron Kit with both enclosures, (1) NXT-5R reader, (1) PSC-35 1.8A power supply, (3) NXT-C & (2) NXT-AP IP-BLUE
NEUT-SOLO	Neutron Controller Board only, In small enclosure, DIN-Rail mountable
NEUT-EU-KIT	Same as 3-R Full kit (above) w/European power supply
NEUT-CBL-KIT	RS-485 Communication Cable Kit, PC to first Neutron board

## RELATED PRODUCTS:

Model #	Description
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



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