

# SMARTLOCK QUICK SETUP GUIDE



# SmartLock with DX2-DH2C2

#### Model Number: DX2-DH2C2

Raritan's SmartLock is an electronic door access and control system for all types of data center enclosures.

#### **Supported Components**

DX2-DH2C2 door handle controller supports the following components:

PDU	PX3 PX3TS PXC SRC	
	Legrand PDU	
Xerus	3.4.20 and up	
	Southco H3-EM-60-100	Emka Agent E
Door Handles	Southco H3-EM-62-100	Emka 1150-U5x
	Southco H3-EM-64-100	Dirak MLR1000
	Southco H3-EM-65-100	Dirak MLR2X00
	Southco H3-EM-66-100	
	Southco H3-EM-67-100	
	Southco H3-EM-68-100	

### **Restrictions for DX2-DH2C2**

- Max. of 1 DX2-DH2C2 with up to 2 electronic door handles per PX3 Sensor port
- Max. cable length PDU to DX2-DH2C2: 5m
- Max. cable length DX2-DH2C2 to door handle: 4m
- No support for hot-plugging door handles. Door handle must not be plugged or unplugged from DX2-DH2C2 while contacts are



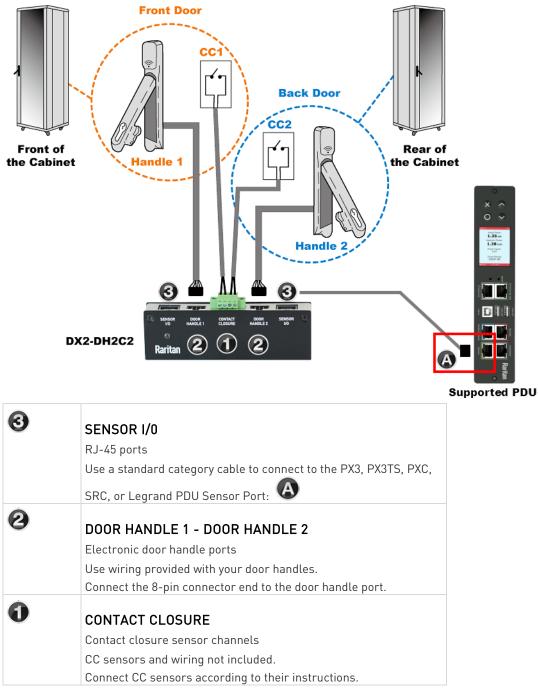
### More Info

Raritan Product Support:

https://www.raritan.com/support/product/px3



### **DX2-DH2C2** Installation

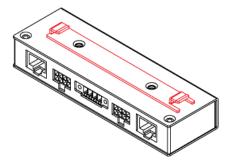


# **Bracket Installation**

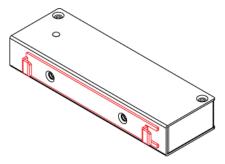
You can install the bracket accompanying DX2-DH2C2 in order to hang or fasten it properly on an object or position. The bracket can be installed either onto the bottom of DX2-DH2C2 or onto one of its sides.



Bracket installed onto DX2-DH2C2's bottom:



Bracket installed onto the side of DX2-DH2C2:



### **Next Steps**

Once the physical connections are complete, login to your PX PDU to use door handle features in the web interface.

#### Web Configuration

#### Peripherals

- Click Peripherals in the Main menu to view the sensors that have been discovered. Upon discovery, the Main menu also adds two new menu options: SmartLock and Card Readers.
- In the Peripheral Devices page, two door handles, door locks, and doors are added automatically.

Dashboard	Periph	eral Devices						Ċ	:
PDU	# 🔺	Name	Reading	State	Туре	Serial Number	Position	Actuator	
Inlet	1	Door 1		unavailable	Door	1GE8200068			
Out to	2	Door 2		unavailable	Door	1GE8200068			
Outlets	3	Door Lock 1		unavailable	Door Lock	1GE8200068			
OCPs	4	Door Lock 2		unavailable	Door Lock	1GE8200068			
Peripherals	5	Door Handle Lock 1		unavailable	Door Handle Lock	1GE8200068		1	
	6	Door Handle Lock 2		unavailable	Door Handle Lock	1GE8200068		1	
Feature Port									
SmartLock									
Card Readers									

#### SmartLock

- Click Smart Lock in the Main menu to open the Door Handle options.
- Smart Lock Controller section on top displays the physical connection to the DX2-DH2C2.



• Door Handle 1 and Door Handle 2 correspond to the labels on the sensor.

SmartLock Controller					
Details					
Position Port 1, Chain position 1					
Serial number 1GE820	0098				
Door Handle 1 😃 Open 🖑 Close 🔒	Door Handle 2 😃 Open 🕚 Close 🔒				
Door State	Door State				
Name State Type	Name State Type				
Door 1 open Door	Door 2 open Door				
Door Lock 1 unavailable Door Lock	Door Lock 2 unavailable Door Lock				
Door Handle Lock 1 unavailable Door Handle Lock	Door Handle Lock 2 unavailable Door Handle Lock				
Card Reader	Card Reader				
Settings	Settings				
Edit Settings	Edit Settings				
Door handle type None	Door handle type None				
Door sensor polarity Normally closed	Door sensor polarity Normally closed				
Door sensor polarity Normally closed	Door sensor polarity Normally closed				

#### Settings

- Click Edit settings.
- Door Handle Type: Select your door handle's model.
  - If your specific Southco H3-EM model is listed, select it. For all other supported Southco H3-EM models, select "Southco H3-EM".

Settings				
	Edit Settings			
Door handle type	None 🔹			
Timeout	Dirak eLine MLR1000			
	Dirak eLine MLR2x00			
	EMKA Agent-E			
Door sensor polarity	EMKA-1150			
	None			
	SouthCo H3-EM			
	SouthCo H3-EM-60			
	SouthCo H3-EM-66			

- Timeout: Specify how long the **door handle lock** can remain open after someone opens the door handle via a smart card or via remote control using the software. When the timeout expires, the door handle lock will be automatically closed. Default is 600 seconds (that is, 10 minutes).
- Door Sensor Polarity: Determine which of the following status is considered normal for door locks.
  - Normally closed: When the door lock is closed, it is considered normal. This is the default.
  - Normally open: When the door lock is opened, it is considered normal.
- Save your changes.



• Once the Door Handle State and Type is detected, the information populates in Door state section.

Door Handle 1		→ 😃 Open 😃 Close
Door State	1	^
Name	State	Туре
Door 1	open	Door
Door Lock 1	closed	Door Lock
Door Handle Lock 1	closed	Door Handle Lock

- Optional: You can rename each Door Handle component by clicking the item and editing settings.
- After these configurations, return to the Peripherals Devices page. This page now displays state, type and Position options for each configured component.

Periphe	eral Devices						¢	:
# 🔺	Name	Reading	State	Туре	Serial Number	Position	Actuator	
1	Door 1		open	Door	1GE8200068	Port 1, Chain Position 1, Channel 1		
2	Door 2		unavailable	Door	1GE8200068			
3	Door Lock 1		closed	Door Lock	1GE8200068	Port 1, Chain Position 1, Channel 1		
4	Door Lock 2		unavailable	Door Lock	1GE8200068			
5	Door Handle Lock 1		closed	Door Handle Lock	1GE8200068	Port 1, Chain Position 1, Channel 1	~	
6	Door Handle Lock 2		unavailable	Door Handle Lock	1GE8200068		1	

#### **Optional Setting: Unlock Front and Rear Doors Simultaneously**

By default, the PDU configuration is set to unlock only one lock at a time to preserve power. You must change the Active Powered Dry Contact Limit to 2 if you require unlocking the front and rear door simultaneously at the rack.

• Click PDU in the Main menu. Click Edit and change the setting as shown.

Raritan.	My PDU	
Dashboard	PDU My PDU	
PDU 🚽	Details	
Inlet	Firmware Version	3.4.0.5-44367
	Serial Number	RHN6A00083
Outlets	MAC Address	00:0d:5d:10:3d:c2
OCPs	Rating	100-120V, 12A, 1.2-1.4kVA, 50/60Hz
Peripherals	Settings	
Feature Port	Name	My PDU
Card Readers	Relay behavior on power loss	Non-latching
Gara neadero	Outlet state on device startup	last known
User Management	Outlet initialization delay on device startup	3 s
Device Settings	Power off period during power cycle	10 s
	Inrush Guard Delay	200 ms
Maintenance	Peripheral Device Z Coordinate Format	Rack-Units
	Peripheral Device Auto Management	disabled
Model PX3-5041V-F5M5K1	Altitude	0 m
Firmware Version	Active Powered Dry Contact Limit	2
3.4.0.5-44367 Help	Reset All Active Energy Counters	Reset Active Energy



#### **Power IQ Integration**

If you are integrating SmartLock with Power IQ, you will need to do additional configurations to complete integration.

Power IQ relies on traps sent by your PDU to get the card reset events. Configure your PDU to forward card reader management related events to Power IQ. See the online help for your PDU for further instructions on SNMP Settings and Event Rule Settings.

Once the configurations described in this guide are complete, Power IQ will have the required infrastructure support to implement a solution with card authorization for unlocking cabinet doors. The following additional configurations are required on Power IQ to accomplish this:

- Card Access Management: Add and assign cards to users
- Add PDUs in Power IQ
- Data Center (EDM) association of PDU, Rack, and Door
- Door Access Management: Associating the card reader to the rack and user authorization

See the Power IQ help for further instructions: https://www.sunbirddcim.com/

## SmartLock Kits

SML-KIT-01:	SML-KIT-SC0-67-2D:
(2) Electronic door handles (HANDLE-E)	(2) Electronic door handles (SML-SCO-H3EM-67)
(1) Contact Closure Sensor with powered contacts (DX-PD2C5)	(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)
(2) Mechanical override keys	(2) Mechanical override keys
Cables and connectors included	Cables and connectors included
SML-KIT-CARD-01:	SML-KIT-EKA-AGE-1D:
SML-KIT-01 packaged with Smart Card reader	(1) Electronic door handle (SML-EKA-AGENT-E)
SML-HFC-READER: (1) USB Modular RFID Card reader with USB cable and	(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)
mounting bracket and screws	(2) Mechanical override keys
	Cables and connectors included
SML-KIT-SCO-60-2D:	SML-KIT-EKA-AGE-2D:
(2) Electronic door handles (SML-SCO-H3EM-60)	(2) Electronic door handles (SML-EKA-AGENT-E)
(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)	(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)
(2) Mechanical override keys	(2) Mechanical override keys
Cables and connectors included	Cables and connectors included
SML-KIT-SCO-66-1D:	SML-KIT-EKA-AGE-1DL:
(1) Electronic door handle (SML-SCO-H3EM-66)	(1) Electronic door handle (SML-EKA-AGENT-E-L)
(1) Electronic door handle (SML-SCO-H3EM-60)	(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)
(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)	(2) Mechanical override keys
(2) Mechanical override keys	Cables and connectors included
Cables and connectors included	
SML-KIT-SCO-66-2D:	SML-KIT-EKA-AGE-2DL:
(2) Electronic door handles (SML-SCO-H3EM-66)	(2) Electronic door handles (SML-EKA-AGENT-E-L)
(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)	(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)
(2) Mechanical override keys	(2) Mechanical override keys
Cables and connectors included	Cables and connectors included
SML-KIT-SCO-67-1D:	
(1) Electronic door handle (SML-SCO-H3EM-67)	
(1) Electronic door handle (SML-SCO-H3EM-60)	
(1) Contact Closure Sensor with powered contacts (DX2-DH2C2)	
(2) Mechanical override keys	
Cables and connectors included	