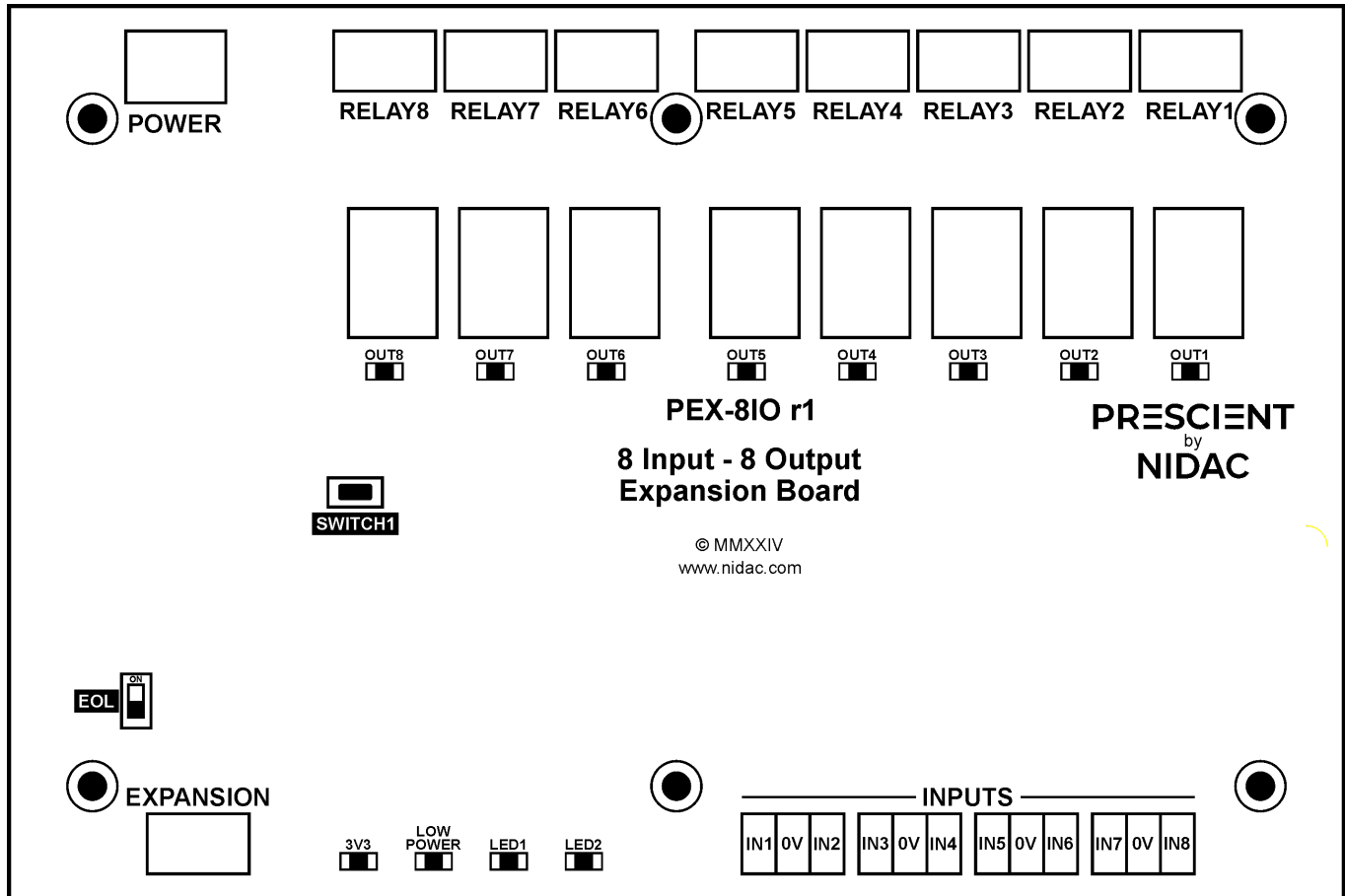


PEX-8IO NPB Setup Instructions

Hardware Setup

PEX-8IO Diagram



1. From the expansion port on the DN4 to which you wish to connect your PEX-8IO wire the A/B/0V terminals in and out of each PEX-8IO's identical terminals in a daisy chain pattern.
 - **NOTE: If you are using an DN4-r2 then you will be using the port labelled 'RS-485/OSDP'.**
2. On the last PEX-8IO in the chain terminate it by turning the EOL switch to ON.
3. Connect 12V power to your PEX-8IO board, ensure adequate supply (12V 0.5A).

Adding a PEX-8IO to an existing Prescient DN4 site

PRESCIENT
Powered by NIDAC
Firmware Version: 2.0.0-f11b2

[Deploy Changes](#)

[Dashboard](#)

EVENTS

- Live Events
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USER MANAGEMENT

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- User Groups
- Schedules
- Release Times

HARDWARE

- Controllers
- Expansion Bus
- Lift Control
- Levels
- Lift Cars
- Door Groups
- Credential Formats

ADVANCED

Alerts

[Acknowledge All](#)

Date/Time	Type	Action
2024-11-13 23:55:39	NPB NODE OFFLINE	Acknowledge
<p>Controller</p> <p>Controller 02</p>		
2024-11-13 09:41:24	UNASSIGNED INPUT TRIGGERED	Acknowledge

Events

Date/Time	Type
2024-11-14 09:48:08	OPERATOR LOGIN
2024-11-13 23:55:39	NPB NODE OFFLINE
2024-11-13 09:47:31	SYSTEM CONFIG DEPLOY SUCCEEDED
2024-11-13 09:47:30	DOOR CLOSED
2024-11-13 09:47:30	DOOR LOCKED
2024-11-13 09:47:30	LIFT LEVEL ACCESS REQUESTED
2024-11-13 09:47:18	SYSTEM CONFIG DEPLOY REQUESTED
2024-11-13 09:44:22	OPERATOR LOGOUT
2024-11-13 09:41:25	SYSTEM CONFIG DEPLOY SUCCEEDED
2024-11-13 09:41:24	DOOR CLOSED
2024-11-13 09:41:24	UNASSIGNED INPUT TRIGGERED
2024-11-13 09:41:24	DOOR LOCKED
2024-11-13 09:41:12	SYSTEM CONFIG DEPLOY REQUESTED
2024-11-13 09:39:12	OPERATOR LOGIN
2024-11-13 09:39:05	OPERATOR LOGOUT

Controllers

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[Restore Backup](#)
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[Collect Diagnostic](#)

4. Log in to your Prescient DN4 system and navigate to the 'Expansion Bus' page on the Navbar located under 'Hardware' category.

Event Archives

Logged in as admin LOGOUT Help

USER MANAGEMENT ^

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ADVANCED ^

- Anti-Passback

CONFIGURATION ^

- Audit Logs
- System
- Networking
- Operators
- Roles
- Messaging Service
- Time Settings

Expansion Bus

Refresh Scan

Controller Name	Controller Serial
Controller 02	010106e4

Name	Device ID	Type	Version	Online
PEX-8IO 1	0b7ae500	PEX-8IO	1.0.0-07d16fe2	Online

Update Firmware [Bell Icon] [Trash Icon]

5. On the 'Expansion Bus' page press 'Scan Button' in the upper right hand side. NOTE: Running a scan will temporarily pause NPB activity while the scan takes place, in the below example the existing PEX8IO named 'EXP.01' will pause while we run our scan. This scan is *global* and scans all controllers on the network. A pop-up will inform you of the above so confirm and press the 'Scan' button on the pop up to proceed.

- Example A) An NPB scan discovering no new devices and one already configured device

Discovered Expansion Devices

Controller Name	Controller Serial
Controller 02	010106e4

Configured Devices

Name	Device Id	Type
EXP.01	0b7ae500	PEX-8IO

Close

- Example B) An NPB scan discovering a new device.

Discovered Expansion Devices

Controller Name	Controller Serial
Controller 02	010106e4

Discovered Devices

Name	Device Id	Type
PEX-8IO 1	0b7ae500	PEX-8IO

[Submit](#)

6. On the scan results modal you can see discovered devices which are displayed on a per controller basis. Discovered expansion devices can be given custom labels at this point.
 - Expansion devices are listed by their DeviceID which is an 8 character unique serial number which can be found on a printed label on the PEX-8IO for easy identification.
7. You can now use the available I/O from the PEX8IO that has been enrolled to configure lift control, access control doors and key lockers etc.
8. Once configuration is complete ensure that the configuration is deployed as this will finalize initialization of the NIDAC Peripheral Bus (NPB).

Deleting a PEX device

1. On the 'Expansion Bus' Page each controller and their associated expansion devices are displayed, each expansion device can be individually deleted via the trash icon on the row of the device in question.
2. If you have inputs from this expansion device associated with other entities in the system like lift cars or doors then you will have to edit or remove those entities before you can proceed with deleting. If this is the case and you attempt to proceed you will be shown an error..
3. If no inputs are in use then you will be shown confirmation dialogue and can either cancel the operation or press confirm to proceed with deleting a PEX device.

Locating a PEX device

- This assumes that the PEX device in question has been scanned and enrolled in your system and you have deployed your configuration after enrollment

PRESCIENT
Powered by NIDAC
Firmware Version: 2.0.0-f11b2

Logged in as admin [LOGOUT] [Help]

Deployment Changes

Dashboard

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ADVANCED

Expansion Bus

[Refresh] [Scan]

Controller Name		Controller Serial	
Controller 02		010106e4	

Name	Device ID	Type	Version	Online		
PEX-8IO 1	0b7ae500	PEX-8IO	1.0.0-07d16fe2	Online	Update Firmware	

1. On the 'Expansion Bus' page press the light bulb icon so it is filled in, this will begin pulsing the indicator LED on the appropriate PEX device
2. Find the PEX-8IO with the flashing indicator LED and you have located the PEX specified
3. You can confirm this via the DeviceID printed on a label on the PEX-8IO against the DeviceID on the user interface.