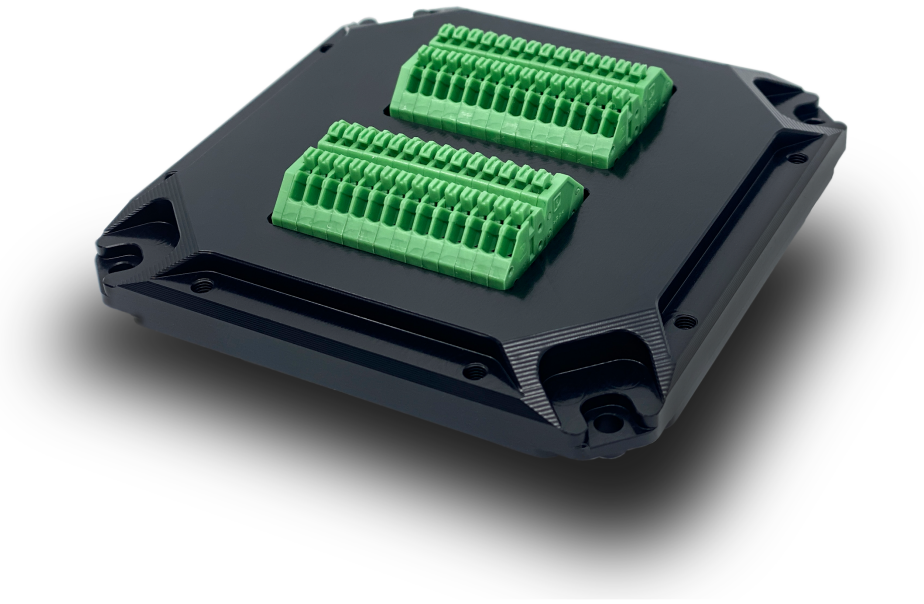
NODEUDESIGN

# Spring Terminal Peripheral Manual



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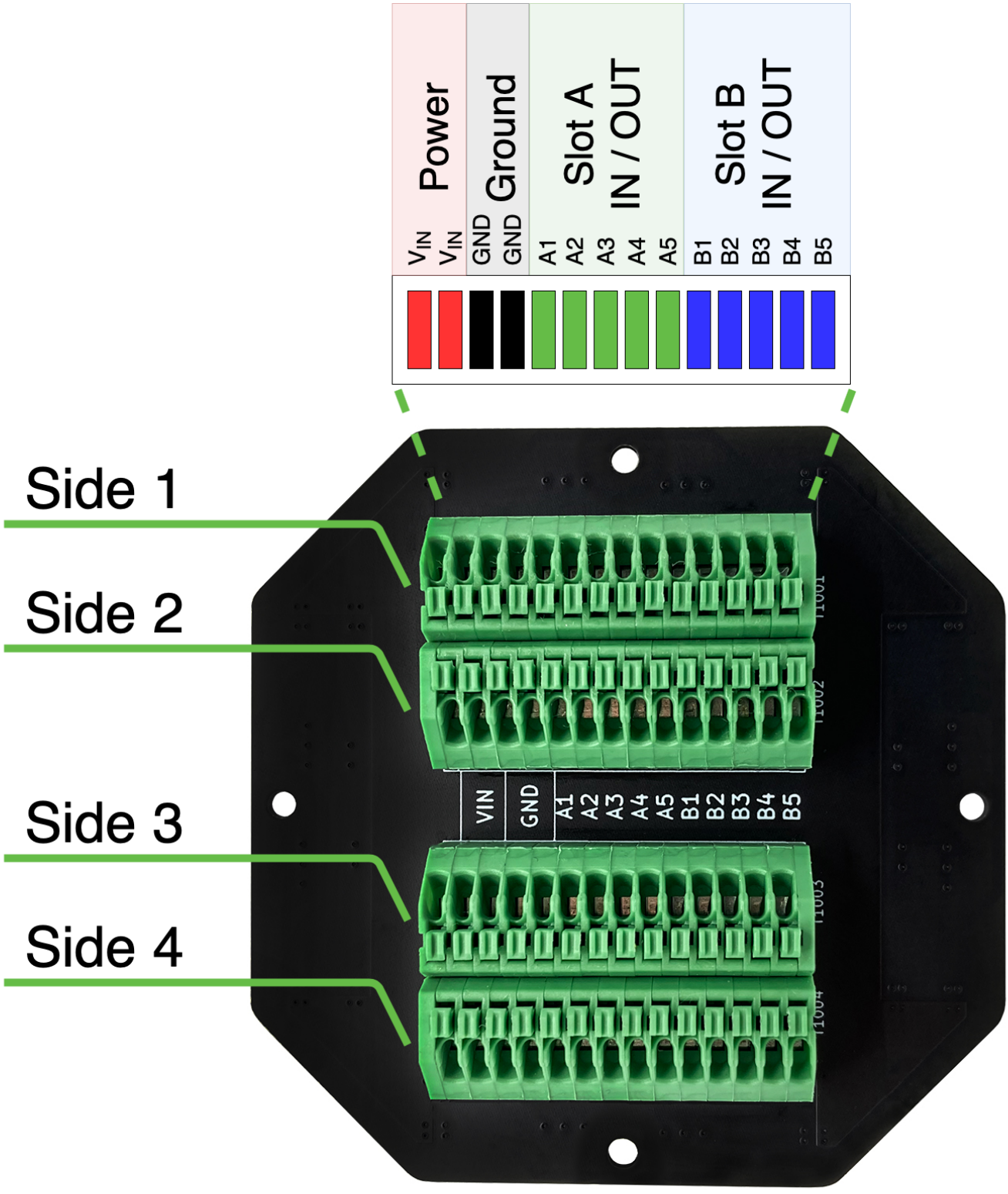
## 1.1. Pinouts


Power
Ground
Slot A
IN / OUT
Slot B
IN / OUT
VIN
VIN
GND
GND
A1
A2
A3
A4
A5
B1
B2
B3
B4
B5
Side 1
Side 2
Side 3
Side 4
VIN
GND
A1
A2
A3
A4
A5
B1
B2
B3
B4
B5

## 1.2. Electrical Characteristics

| Absolute Maximum Ratings | |
|---|---|
| | Max |
| Voltage at any Terminal | 45 V |
| $V_{ESD}$ Electrostatic discharge | 16000V |
| Storage Temperature | -40℃ - 80℃ |
| Operating Temperature | -20℃ - 80℃ |

| Recommended Maximum Ratings | | | |
|---|---|---|---|
| | Min | Typical | Max |
| Operating Voltage | 7.5V | - | 36V |
| Output Voltage | 0V | - | 36V |
| Continuous Current per Channel | - | 1.0A | 2.0A[1] |

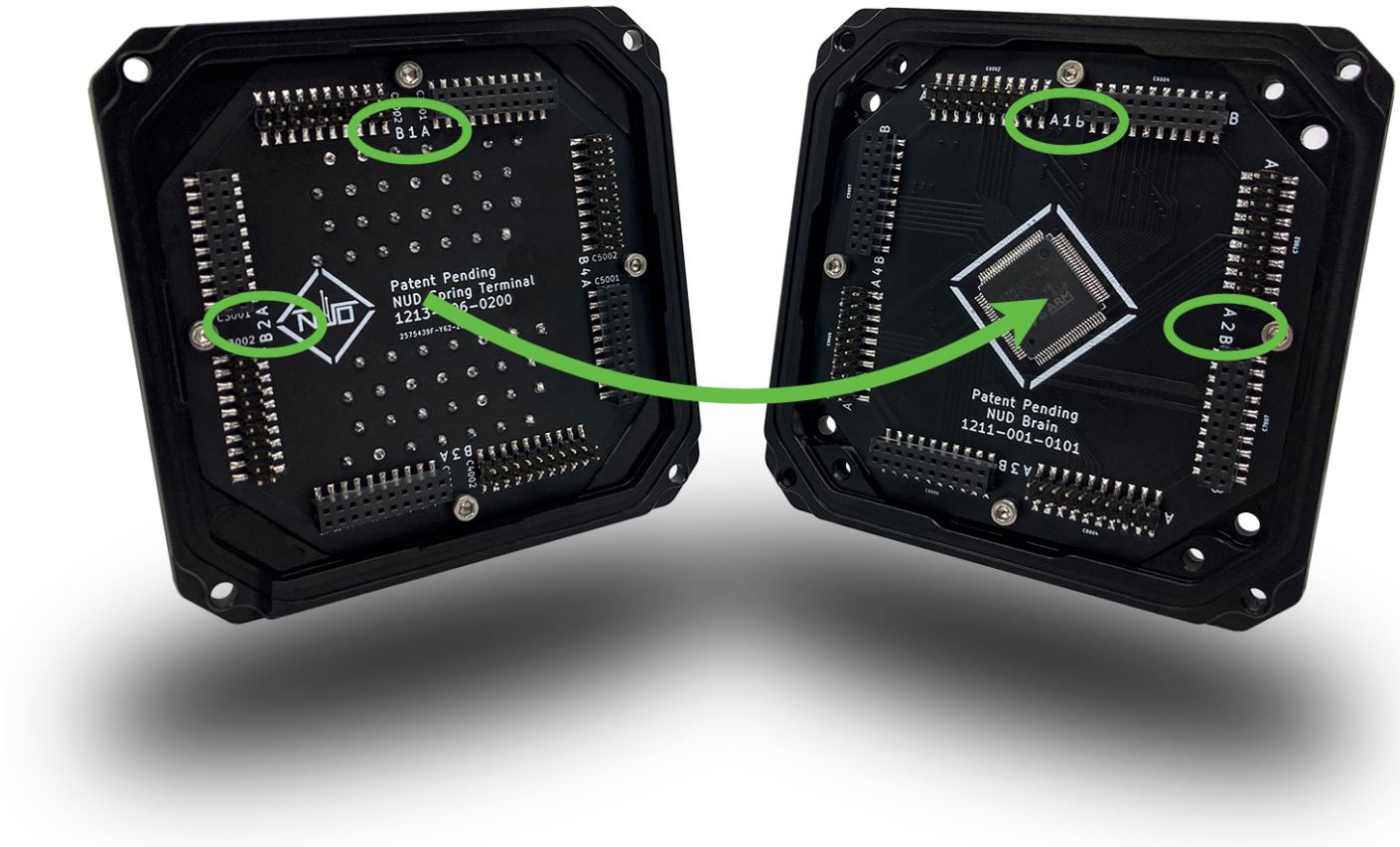
[1] Limited by output connector interface.

The NUD Spring Terminal Peripheral is a simple interface between the outside world and the NUD stack. The NUD Spring Terminal Peripheral's abundance of terminals allow for ample power delivery and signal I / O. High-quality terminal blocks offer robust electrical connections and excellent thermal characteristics in most environments.

## 2.1. Hardware

The NUD Spring Terminal Peripheral contains four 14-pin terminal blocks. When properly connected to the Brain, each terminal block represents a side of the Brain's connectors. Each terminal block is divided into four parts: Vin, Ground, Slot A, and Slot B. Slots correspond to the Brains A and B connector slots. See "Brain User Manual" for Brain connector layout and terminology.

## 2.2. Connecting the Spring Terminal Peripheral to the Brain




To connect the NUD Spring Terminal Peripheral to the Brain, locate the slot indicators between the connectors around the perimeter of the NUD Brain and NUD Spring Terminal Peripheral. Orient the NUD Brain and NUD Spring Terminal Peripheral so that their sides and slots mirror each other. Combine the two NUDs by sliding their connectors together.

NODE DESIGN
Patent Pending
NUD Input
1212-004-0101
Patent Pending
NUD Ethernet
1212-002-xxxx
Patent Pending
NUD Output
1211-012-0101
Patent Pending
NUD Brain
1211-001-01C1

# Appendix