



Janus Book



Use this QR Code to access the updated installation instructions and other documents related to the product.



Thank you for purchasing an SI product. If you have any questions or need any assistance with your Janus, we would love to help you.

Technical Support: 512.832.6939

Hours of Support: 7:30am – 5pm CST

screeninnovations.com

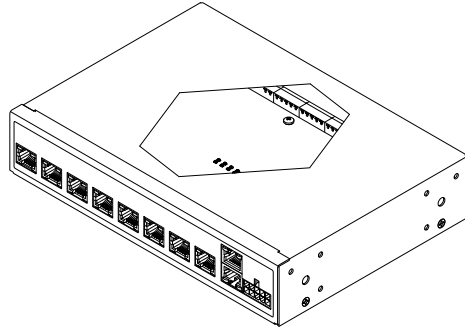
screensupport@screeninnovations.com

shadesupport@screeninnovations.com

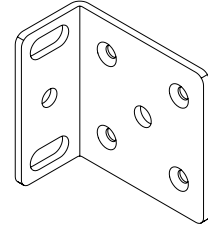
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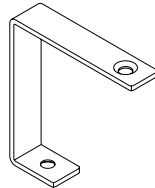
WHAT'S INCLUDED



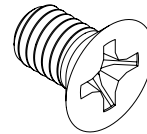
Janus



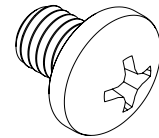
Universal Rack Ear (2)



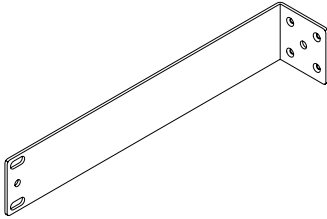
Rack Mount Fascia



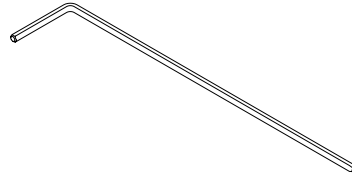
Universal Mounting
Screws (10)



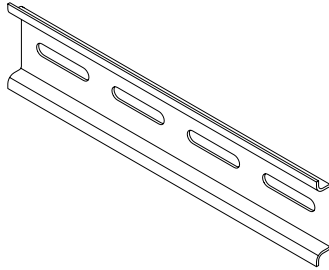
DIN Rail Screws (2)



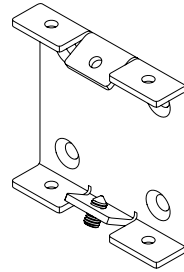
Long Rack Ear



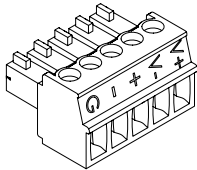
1.5 mm Hex Tool



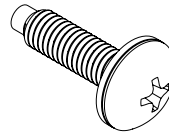
Universal DIN Rail



Universal DIN Rail Bracket (2)



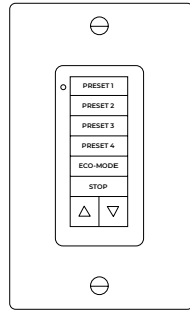
Terminal Block (8)



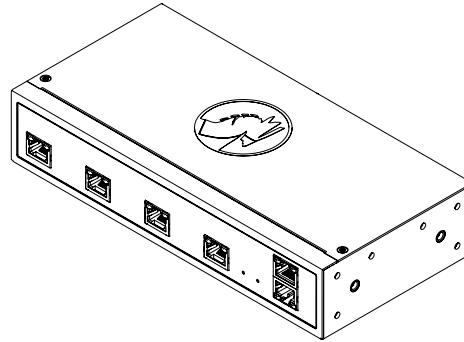
Rack Mount Screws (4)

ADDITIONAL ACCESSORIES

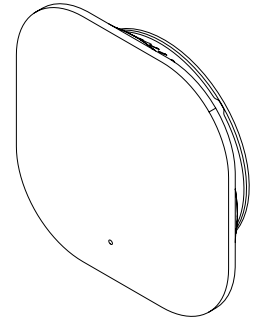
(Sold Separately)



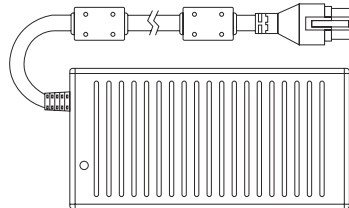
Decoflex Keypad



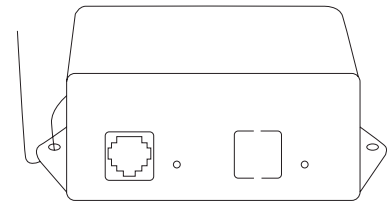
TRO.Y



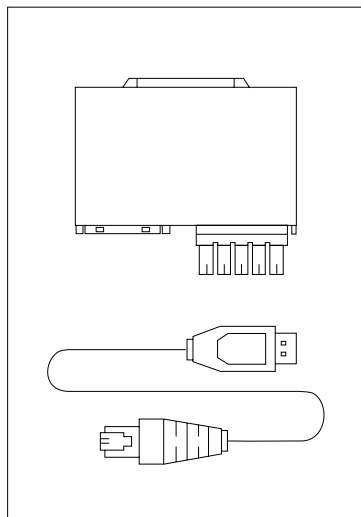
LinkPro Z (for use with
Zigbee LV)



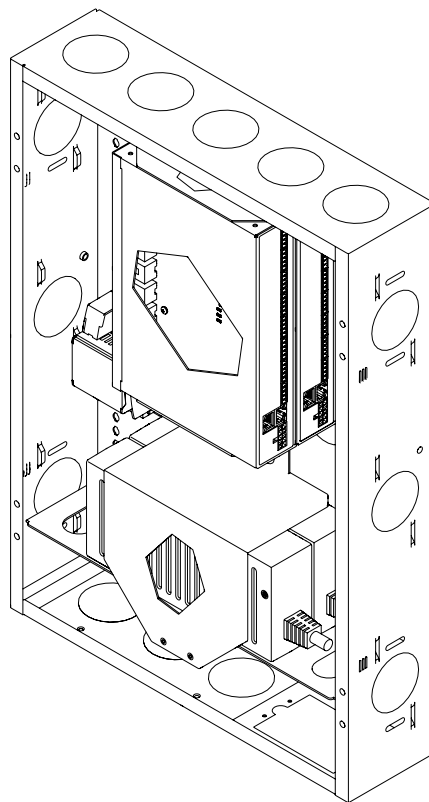
Redundant Power Supply



RTS - SDN Receiver



24v USB
Programming Kit



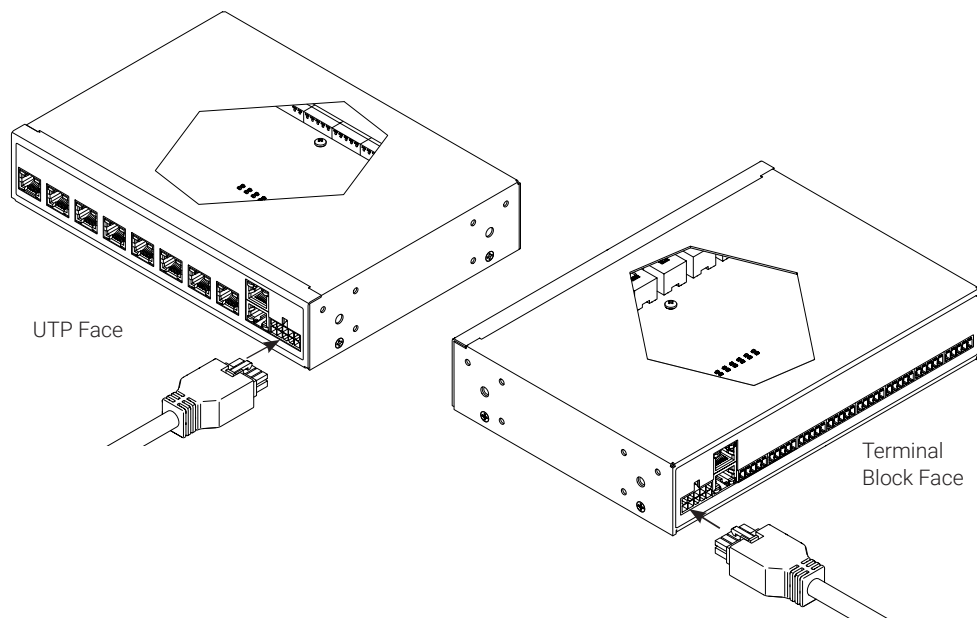
Joplin XVI Bracket kit
(For more info, see page 44)

QUICK INSTALL – CONNECTIONS

1. Connecting Power

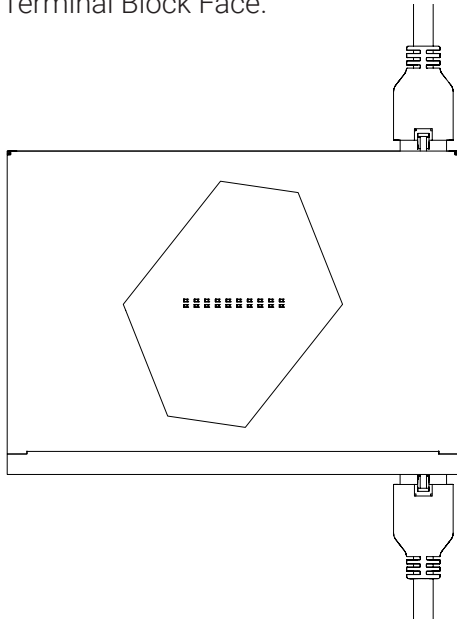
Janus has flexible power options:

- a. Standard single power supply on either sides of the Janus

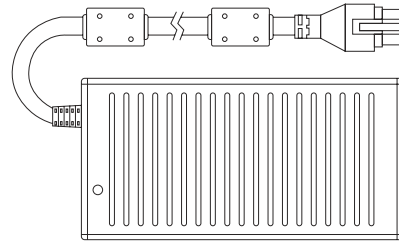


b. Additional power supply for redundancy

If one of the power supplies fails, Janus will automatically switch over to the secondary input. By default, Janus receives power from the Terminal Block Face.



Redundant Power Supply



375 Power Supply (sold separately) can be used with up to 8–485 LV, 485 AC, Zigbee/RTS LV shades/screens.



Plenum Rated Power Supply (sold separately) can be used in projects where Janus is mounted in a plenum air space.

Refer to pages 28-33 for more details on Plenum.

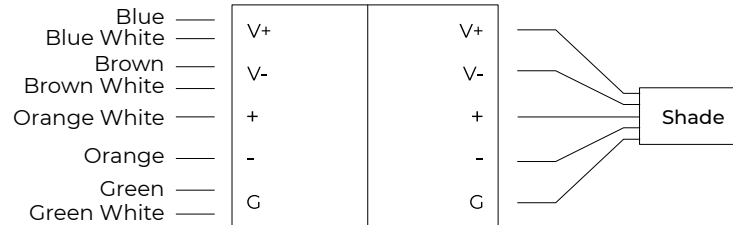
QUICK INSTALL – CONNECTIONS

2. Connecting Shades

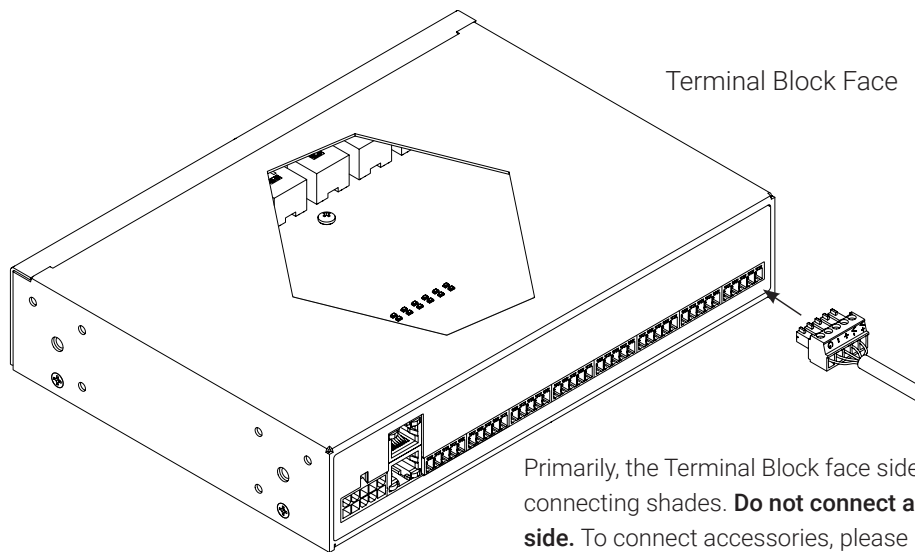
Janus offers the flexibility to run 485 LV, 485 AC, or Zigbee/RTS low-voltage shades/screens using any industry standard 2 – 5 conductor cable, or CAT5e/6. Both the UTP Face or the Terminal Block Face may be used. Each Janus device is capable of supporting up to eight (8) shades/screens. Scan the QR code below/reference the Wire Topologies sheet (<https://si-website-files.s3.amazonaws.com/Downloads/Info+Sheets/wire-topologies.pdf>) on our website for supported wire and pinouts.



UTP Cable Terminated with Terminal Block

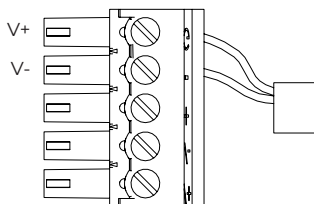


Please note, in the above illustration, wire between Janus terminal block face and the motor only. **Do not use this pinout with UTP side of Janus.** Refer to page 19 for the UTP side pinout.

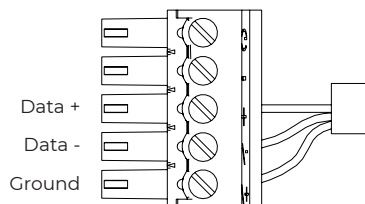


Primarily, the Terminal Block face side is used for connecting shades. **Do not connect accessories to this side.** To connect accessories, please use the UTP face.

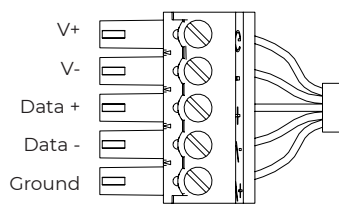
2 Conductor Cable for Zigbee/RTS LV motor



3 Conductor Cable for 485-AC motor

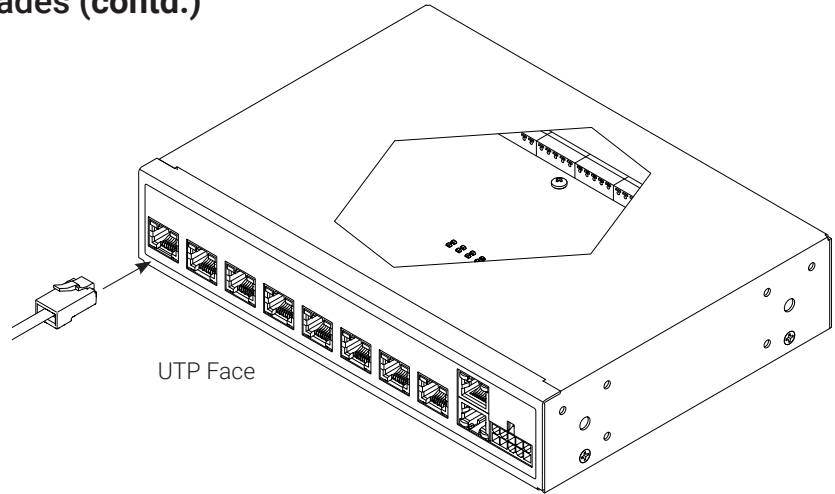


5 Conductor Cable for 485-LV motor



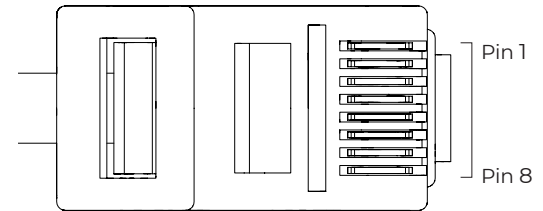
QUICK INSTALL - CONNECTIONS

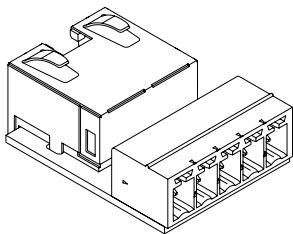
2. Connecting Shades (contd.)



Primarily, the UTP face is used for connecting Decoflex Keypads, or other accessories and can be used for 485 AC motors. If you plan to connect 485 LV shades/screens to this side, you follow the termination table to the right or use the optional Janus Spike kit.

Note: Do not use the UTP face when using Fontus.





The Janus Spike Kit (sold seperately) connects at the shade location and allows for a properly terminated UTP cable installation. Contact SI for more details at 512-832-6939.

Utilizing RJ-45 TIA-568B termination standard

Pin#	Color	Function
1	Orange White	SDN Data RS485 (+)
2	Orange	SDN Data RS485 (-)
3	Green White	Spike sense* _____
4	Blue	Power 24v DC (V+)
5	Blue White	Power 24v DC (V+)
6	Green	Spike sense* _____
7	Brown White	SDN RS485 Ground (G)
8	Brown	SDN RS485 Ground (G)



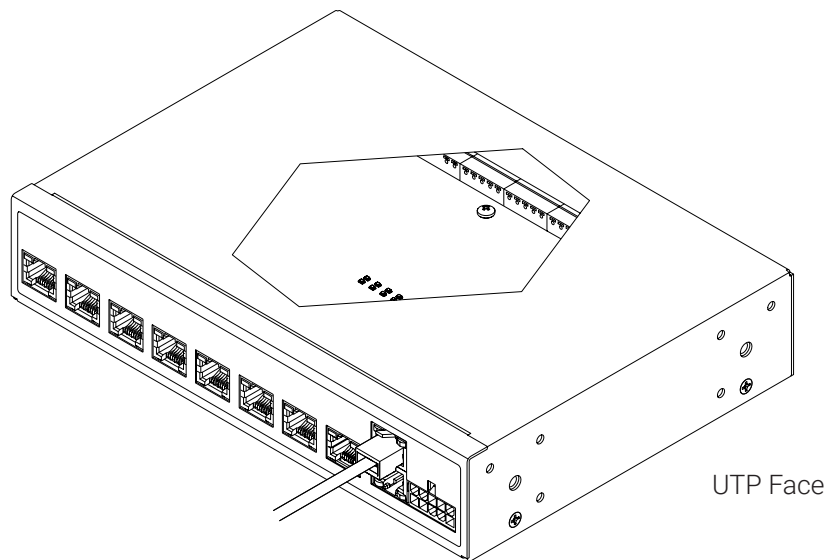
Please note, the illustration on the left wire between the Janus UTP face and motor only. **Do not use this pinout with the Terminal face of Janus.**

*Only use Spike sense when connecting shades

QUICK INSTALL – CONNECTIONS

3. Connecting BUS Devices

All motor ports on the UTP face of Janus accept device inputs and can be used if the port is not needed for a shade. Janus supports the use of 8 shades and 8 devices simultaneously, if all motors are plugged in to the Terminal Block face while all devices are connected to the UTP face.

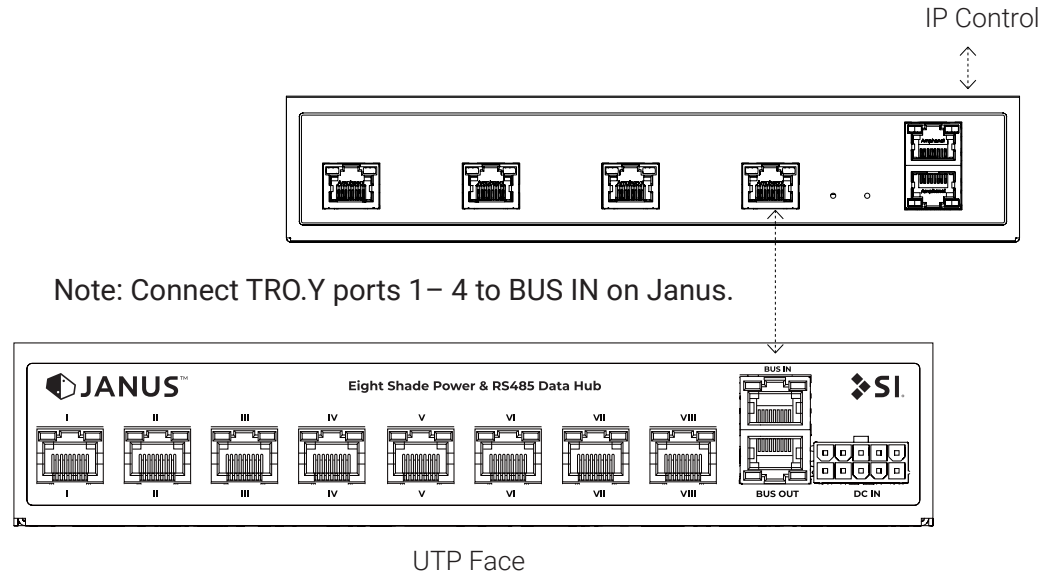


QUICK INSTALL – CONNECTIONS

4. Connecting IP Control

TRO.Y is intended for connection to either Janus BUS IN ports. Regardless of which port you plug the TRO.Y into, your entire system will be controllable over IP.

****TRO.Y requires a separate cable connecting it to the IP network of the site****

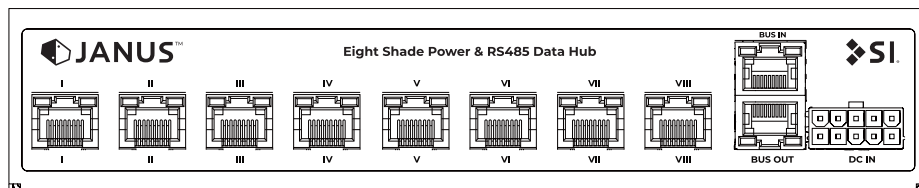


QUICK INSTALL – LED OPERATION

RJ45 LED information table for external face LEDs.

Port	Left LED OFF	Left LED ON	Left LED blinking	Right LED OFF	Right LED ON
Bus In	Bus Idle	N/A	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Device Bus Out	Bus Idle	End of Bus Line**	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade I	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade II	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade III	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade IV	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade V	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade VI	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade VII	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*
Shade VIII	Bus Idle	Shade Presence	Bus Data Activity*	Bus Line Fault	Bus Power No Fault*

* Green LED Light ON ** Yellow LED Light ON



UTP Face

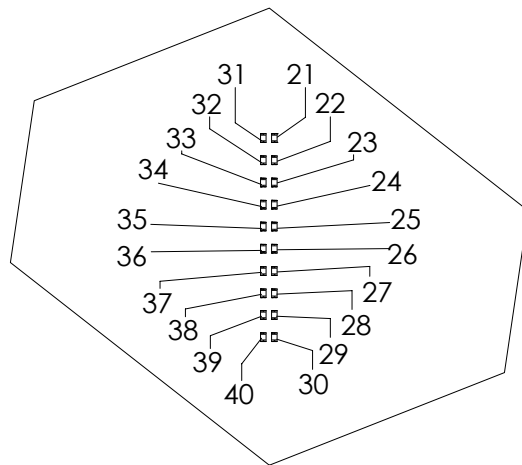
QUICK INSTALL – LED OPERATION

Top Window LED information for PCB indicators visible through the enclosure window on the top surface (except for Plenum option)

Port/ Designator	Left LED OFF	Left LED ON	Left LED Blinking	Port/ Designator	Right LED OFF	Right LED ON	Right LED Blinking
Bus IN / 21	Bus Idle	N/A	Bus Data Activity*	Bus IN / 31	Bus Line Fault	Bus Power No Fault*	N/A
Device Bus OUT / 22	Bus Idle	End of Bus Line**	Bus Data Activity**	Device Bus OUT / 32	Bus Line Fault	Bus Power No Fault*	N/A
Shade I / 23	Bus Idle	Shade Presence	Bus Data Activity*	Shade I / 33	Bus Line Fault	Bus Power No Fault*	N/A
Shade II / 24	Bus Idle	Shade Presence	Bus Data Activity*	Shade II / 34	Bus Line Fault	Bus Power No Fault*	N/A
Shade III / 25	Bus Idle	Shade Presence	Bus Data Activity*	Shade III / 35	Bus Line Fault	Bus Power No Fault*	N/A
Shade IV / 26	Bus Idle	Shade Presence	Bus Data Activity*	Shade IV / 36	Bus Line Fault	Bus Power No Fault*	N/A
Shade V / 27	Bus Idle	Shade Presence	Bus Data Activity*	Shade V / 37	Bus Line Fault	Bus Power No Fault*	N/A
Shade VI / 28	Bus Idle	Shade Presence	Bus Data Activity*	Shade VI / 38	Bus Line Fault	Bus Power No Fault*	N/A
Shade VII / 29	Bus Idle	Shade Presence	Bus Data Activity*	Shade VII / 39	Bus Line Fault	Bus Power No Fault*	N/A
Shade VIII / 30	Bus Idle	Shade Presence	Bus Data Activity*	Shade VIII / 40	Bus Line Fault	Bus Power No Fault*	N/A

* Green LED Light ON ** Yellow LED Light ON

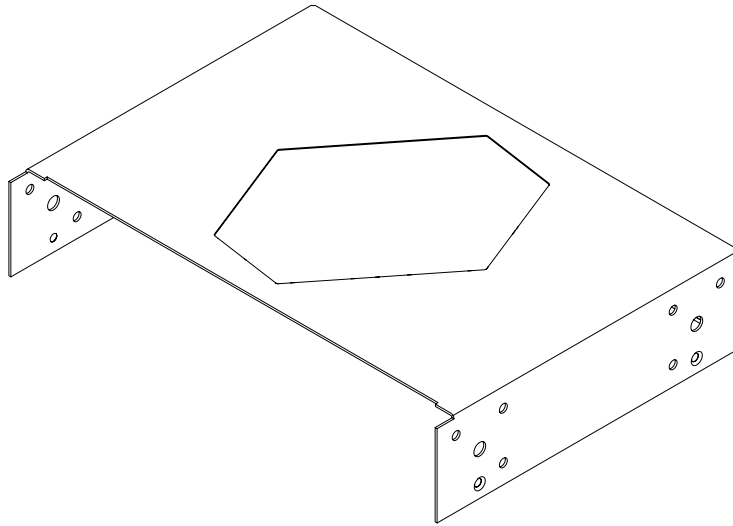
Terminal Block Face



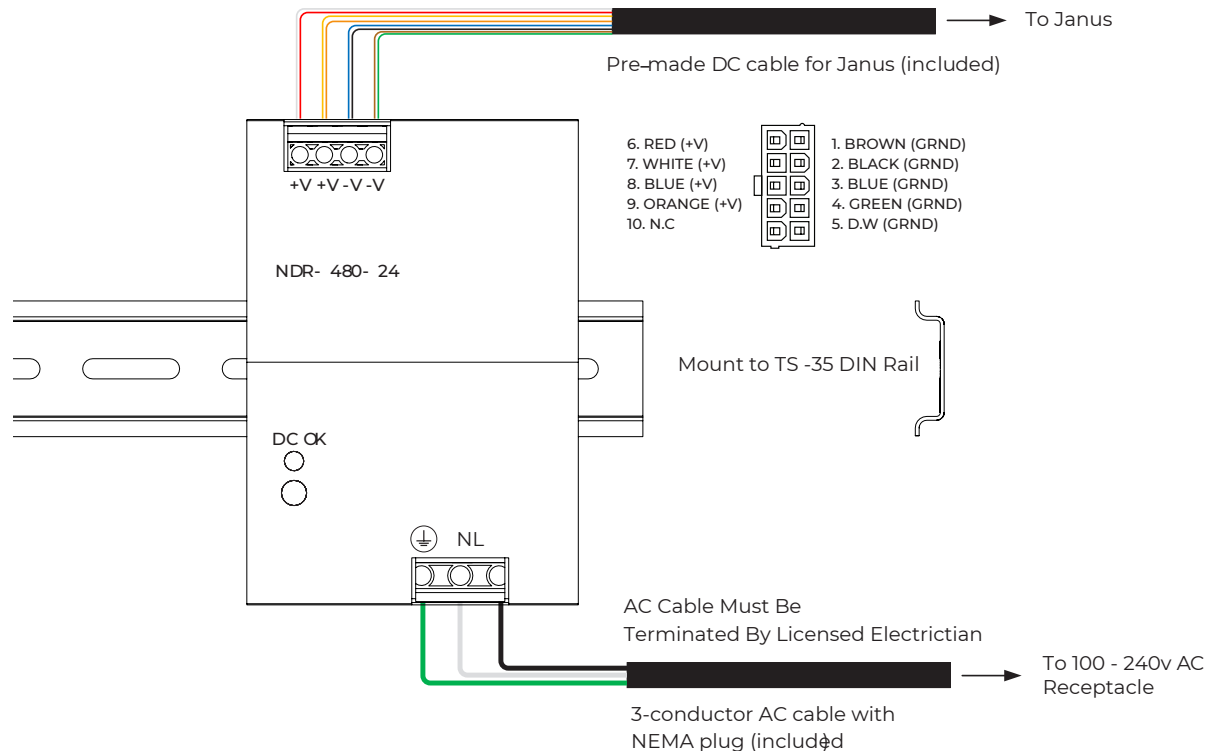
UTP Face

PLENUM SECTION

If using one of the Janus plenum rated power options, refer to the pin out on the following page.



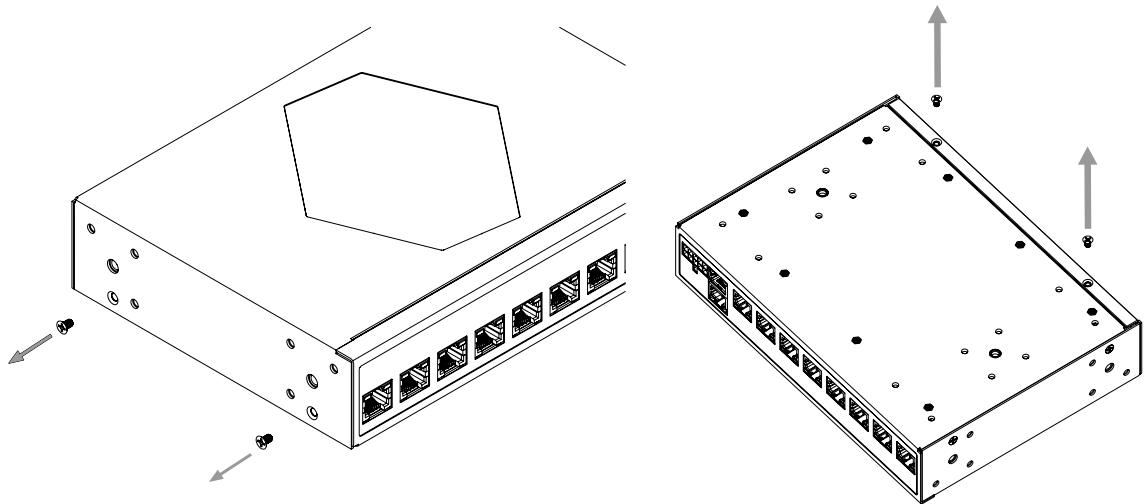
PLENUM SECTION – Pinout



PLENUM SECTION – Quick Install

1a. Remove the original top

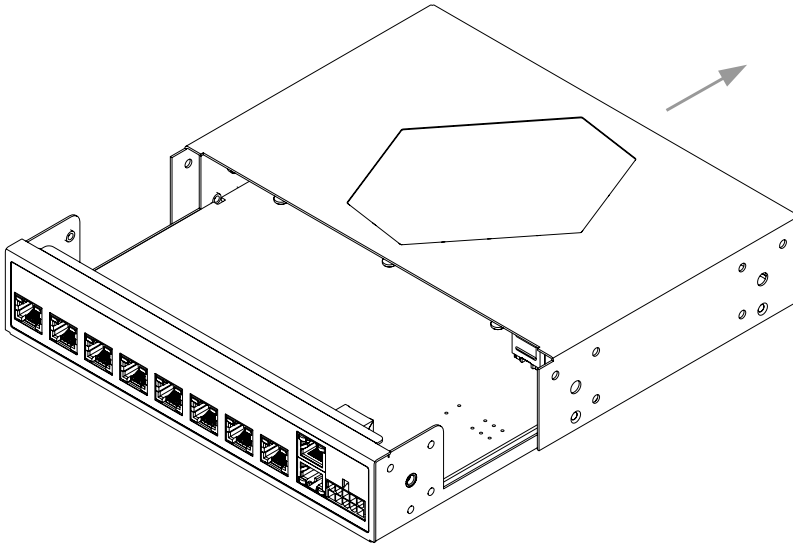
Use a #1 Phillips screwdriver to remove the six (6) enclosure screws (two on each side and two on the bottom).



PLENUM SECTION – Quick Install

1b. Slide the top

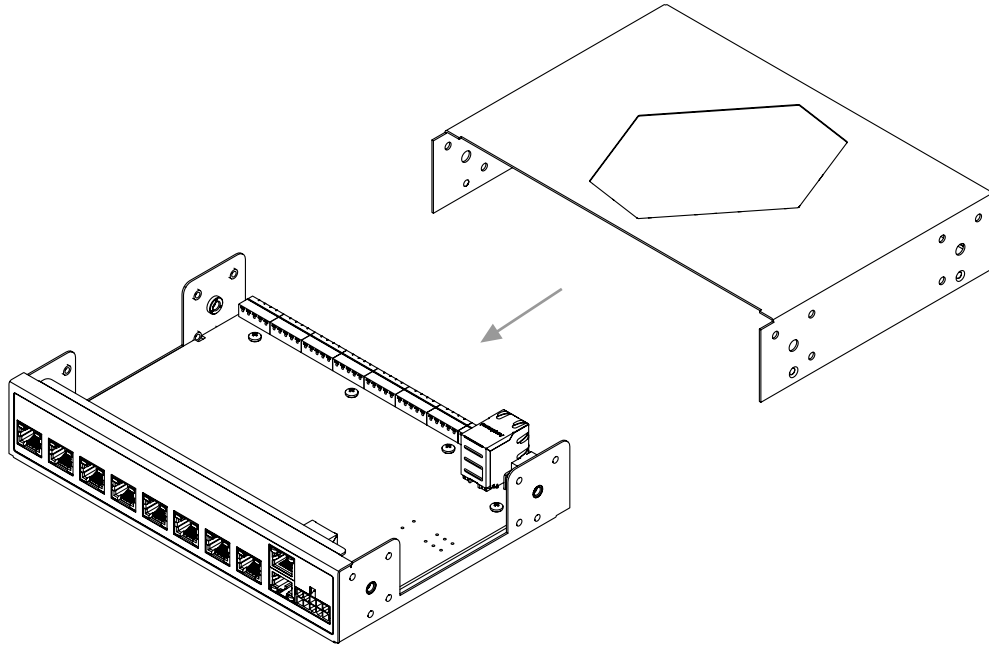
Carefully slide standard enclosure top off Janus unit; perform this step slowly and avoid touching the PCB.



PLENUM SECTION – Quick Install

2. Attaching the plenum top

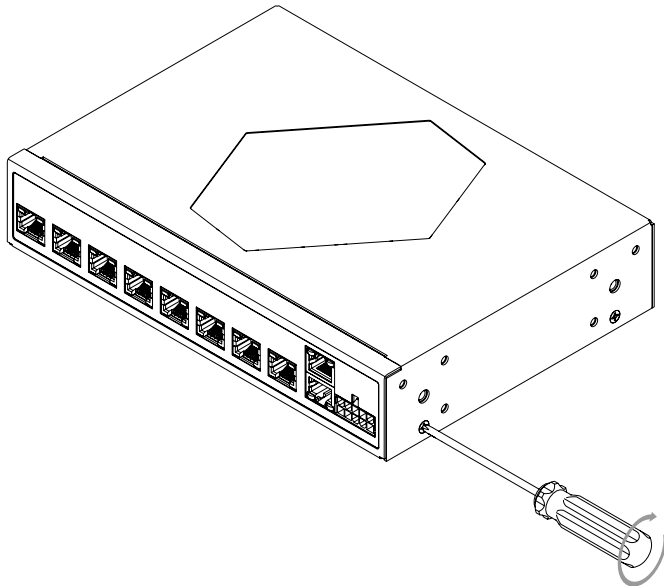
Carefully slide plenum rated enclosure top onto Janus unit; perform this step slowly and avoid touching the PCB.



PLENUM SECTION – Quick Install

4. Slide the top

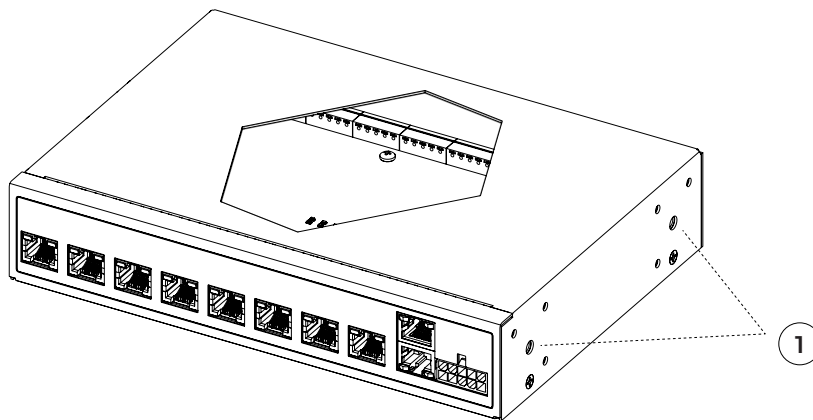
Use a #1 Phillips screwdriver to reinstall the six (6) enclosure screws. The screws should be hand tight only, do not overtighten.

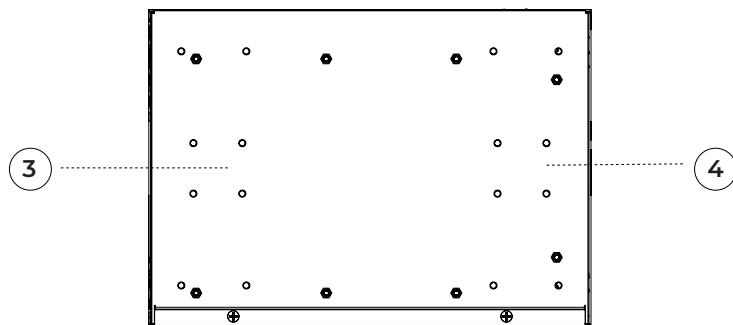
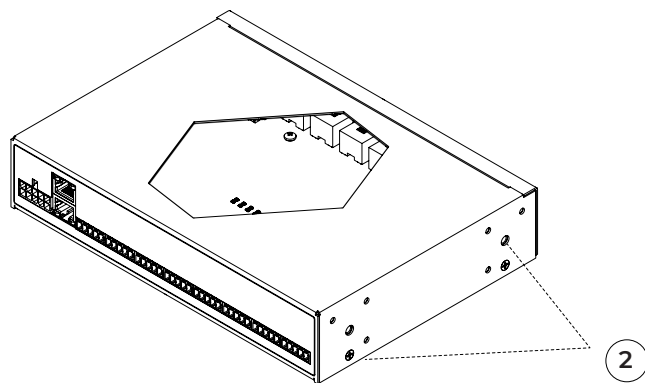


RACK MOUNTING

Screw Hole Locations

Janus can be mounted in various ways using the six (6) screw hole locations.

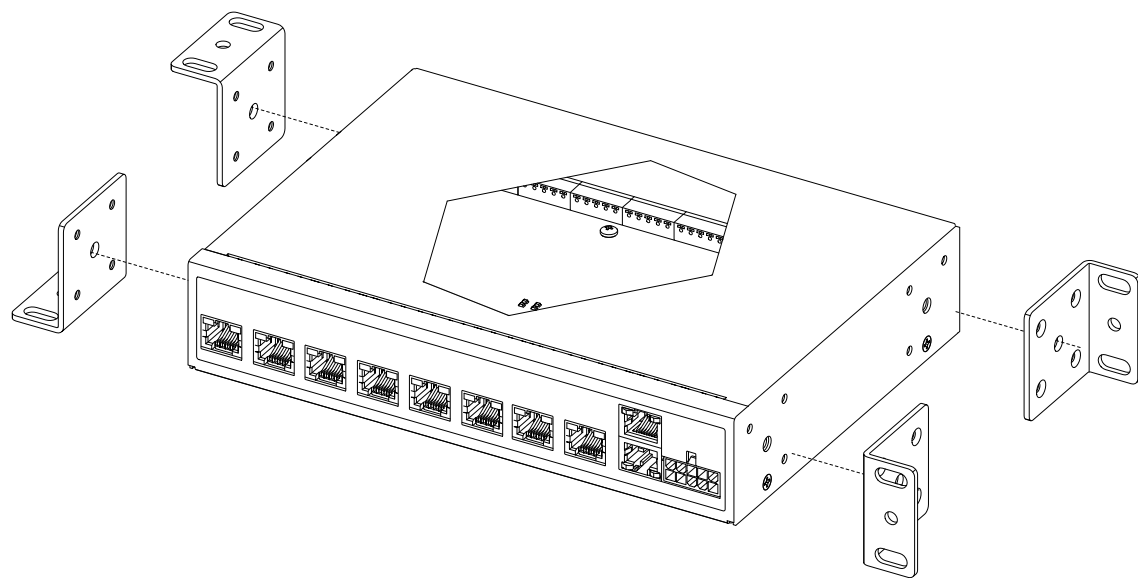




RACK MOUNTING

Using Universal Rack Ear

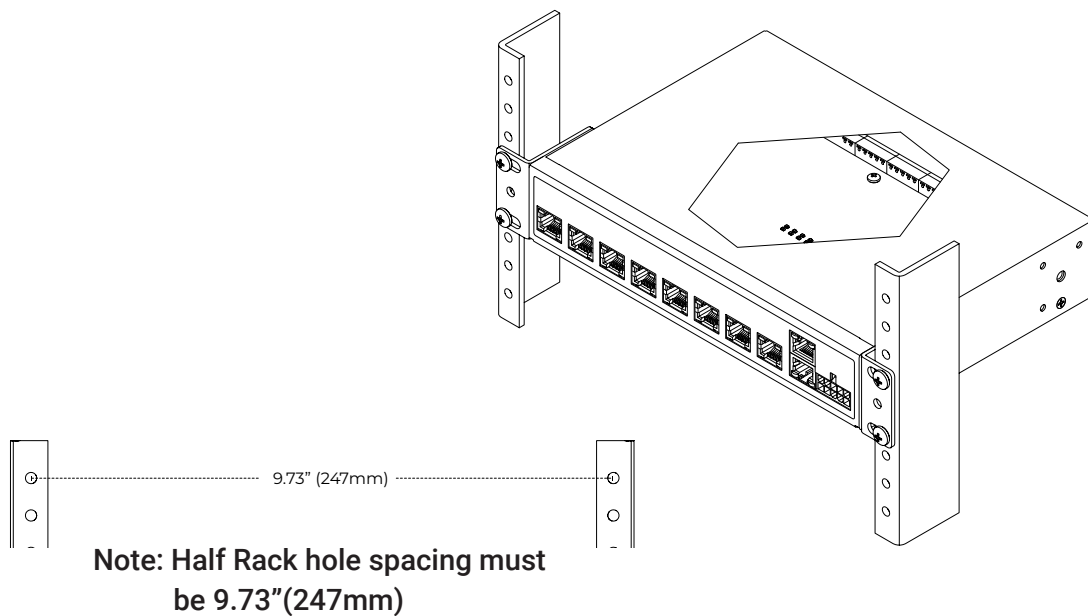
The symmetrical hole pattern of the Janus Universal Rack Ear allows the multi-functional brackets to be mounted on either side of Janus in any orientation. This makes it possible to mount Janus to effectively any surface in multiple positions.



RACK MOUNTING

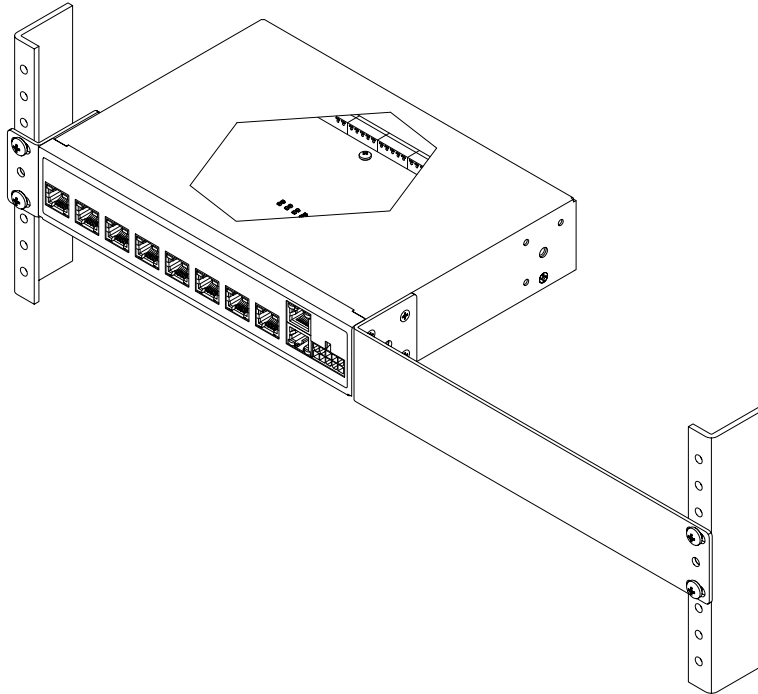
1. Half Rack

Janus can be mounted in a standard half rack using two (2) Universal Rack Ears.



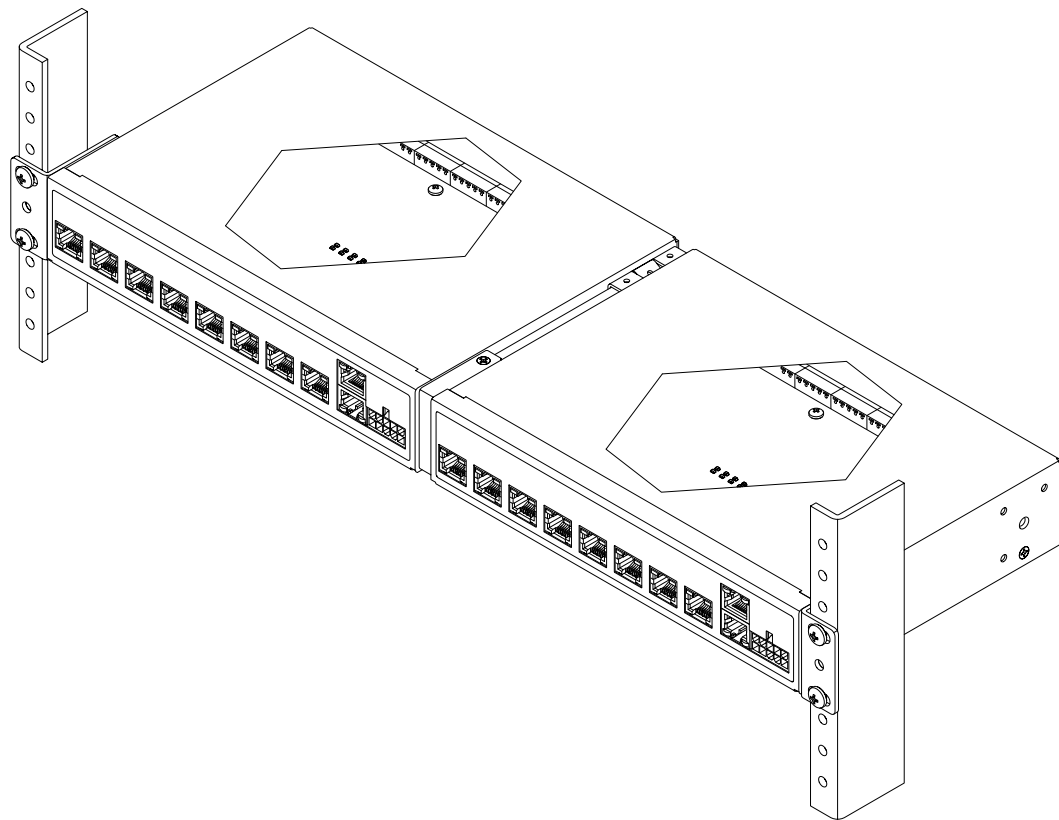
2a. Full Rack (Single Janus Unit)

A single Janus unit can be mounted in a standard 19" rack using one Universal Rack Ear and one Long Rack Ear.

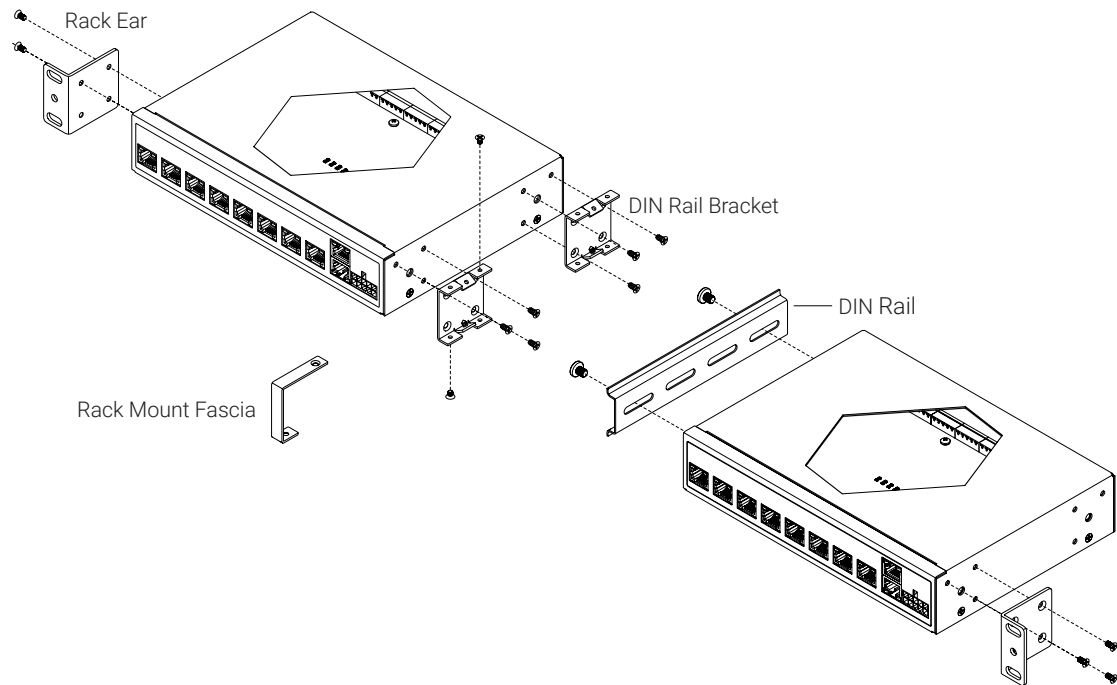


2b. Full Rack (2 Janus units)

Two Janus units can be coupled together and mounted in a standard 19" rack. Follow the steps on the following spread for installation.



- a. Using two (2) of the included DIN Rail screws, install the DIN Rail onto the first Janus unit.
- b. Using three (3) Rack Ear screws each (included), install the two DIN Rail brackets on the opposite side of the second Janus unit.
- c. While holding both Janus units, slide the DIN Rail through both DIN rail brackets. Then, tighten both set screws using the provided 1.5 mm hex tool.
- d. Slide the Rack Mount Fascia over the exposed DIN Rail bracket on the desired front face of the combined unit. Fasten the fascia down with two Rack Ear screws (on the top and bottom).
- e. Finally, fasten one Rack Ear to each Janus unit using three (3) Rack Ear screws each.

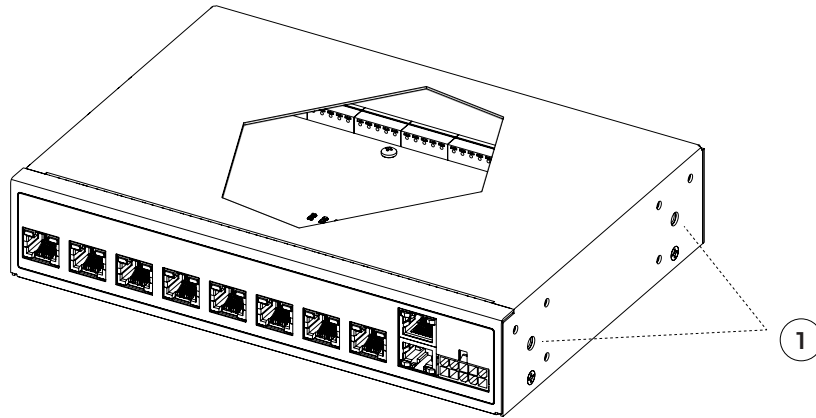


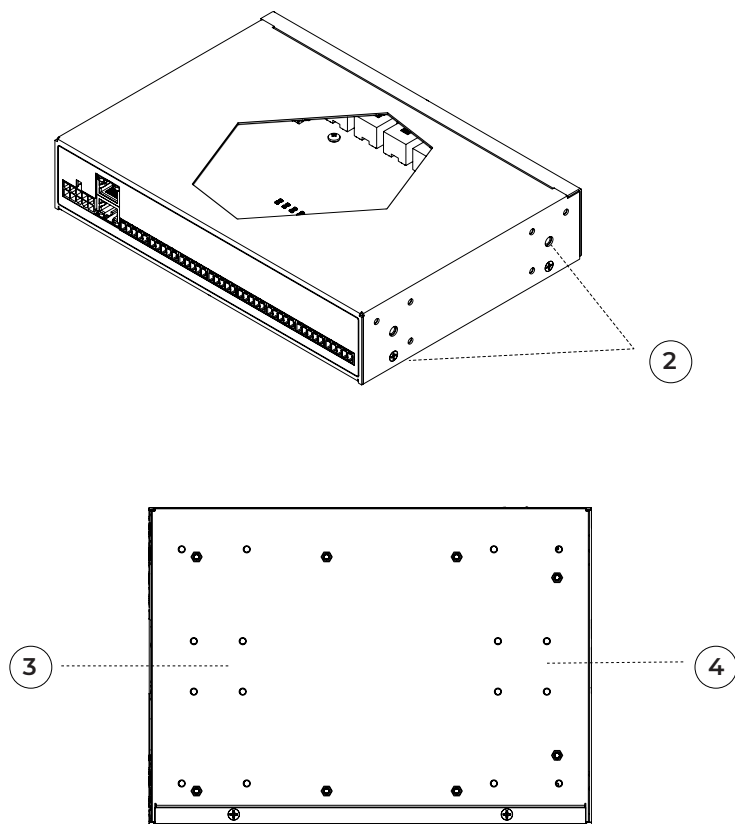
DIN RAIL MOUNTING

Screw Hole Locations

Janus is available in both plenum and non-plenum options. If mounting in a plenum air space, ensure you have purchased a plenum rated Janus kits.

Janus can be mounted in various ways using the six (6) screw hole locations.

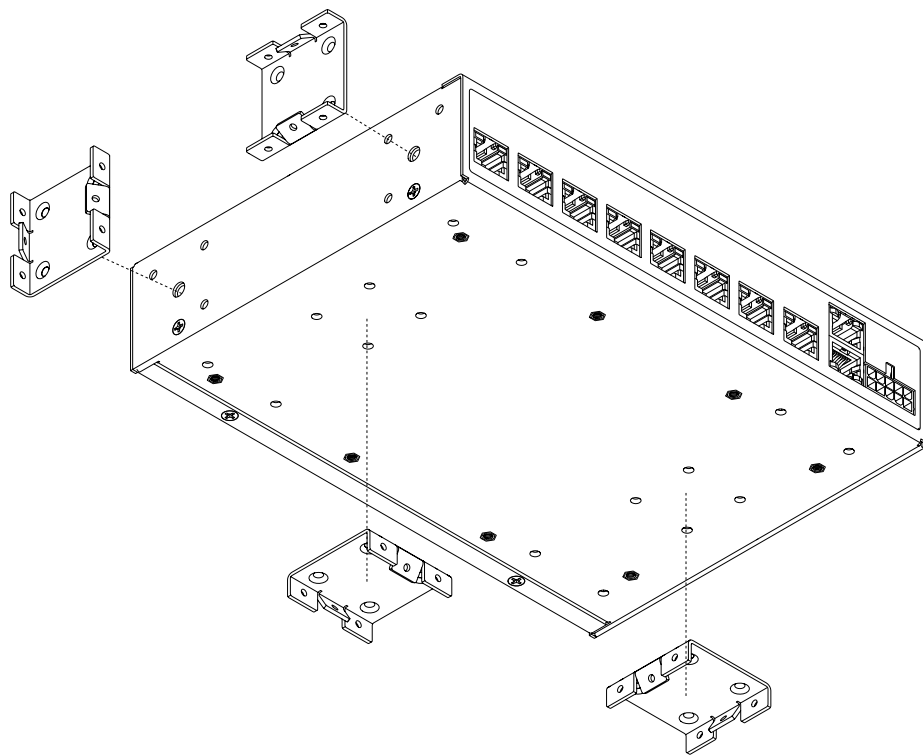




DIN RAIL MOUNTING

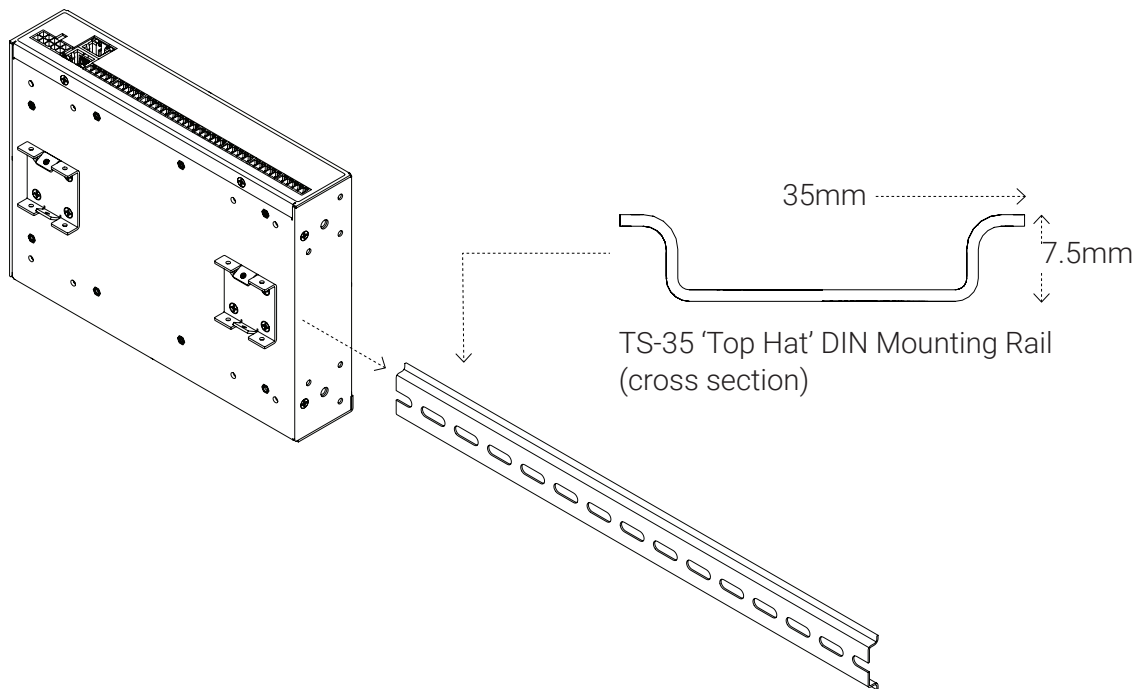
Using Universal DIN Rail Bracket

Similar to the Universal Rack Ear, the Janus Universal DIN Rail Bracket features a symmetrical hole pattern which provides six mounting locations on the Janus. Each Universal DIN Rail Bracket has multiple threaded holes which accommodate set screws to lock the brackets in place along the DIN Rail.



DIN RAIL MOUNTING

Using the Universal DIN Rail Brackets, Janus can be mounted in a variety of orientations and locations. The Universal DIN Rail Brackets are designed for the TS-35 'Top Hat' DIN Mounting Rail and can be mounted on the bottom or either side of the Janus.

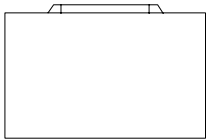


Note: When installing Janus in plenum air space, both the power supply and wiring must be plenum rated in order to maintain the plenum rating.

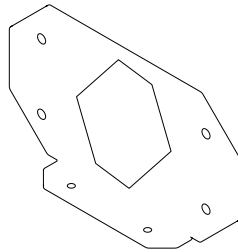
STRUCTURED WIRING BOX MOUNTING

Janus can be installed into nearly any structured wiring enclosure using either the Universal Rack Ears or Universal DIN Rail Brackets. Structured wiring enclosures are a convenient and professional way to manage wiring and mount supporting devices such as power supplies and TRO.Y. The Jopplin XVI Bracket Kit may be used to have a complete mounting solution for the enclosure.

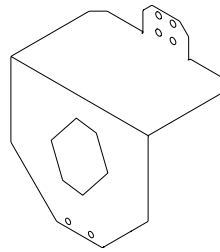
Parts in the Jopplin XVI Bracket Kit



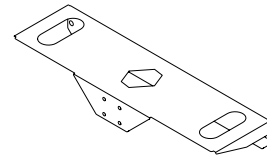
90 Degree Power
Connectors (2)



Janus Stack Mount
Brackets (2)

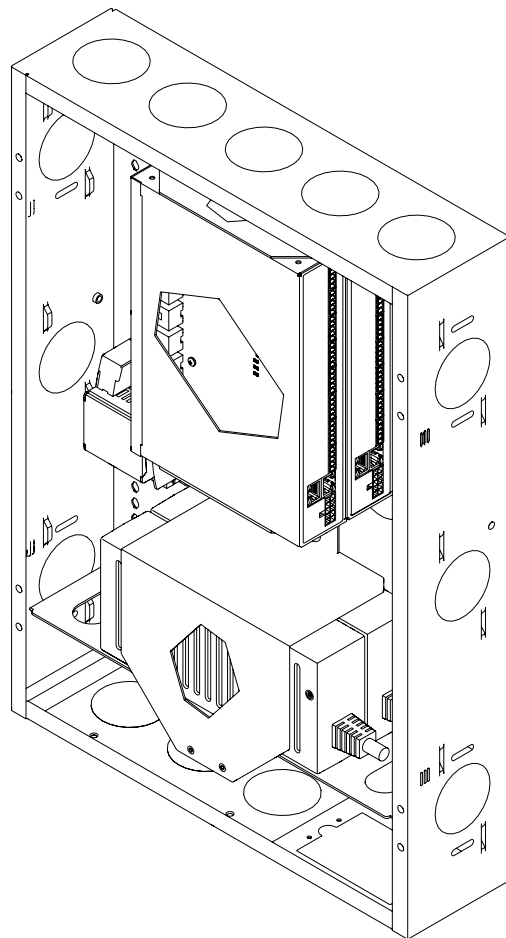


Power Supply
Upper Bracket



Power Supply
Lower Bracket

1. Connect up to two (2) Janus units into the Stack Mount Brackets.
2. Assemble top and bottom Power Supply Brackets and insert up to two (2) Janus Power Supplies.
3. Route power supply cables from two (2) power supplies to the two (2) Janus units installed into the Stack Mount.





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