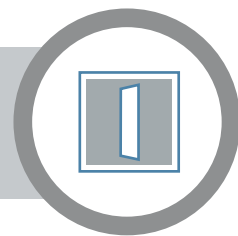


Janus C4 RS-485 Line Header Datasheet



Part number: JC4-ADV-C2-LH

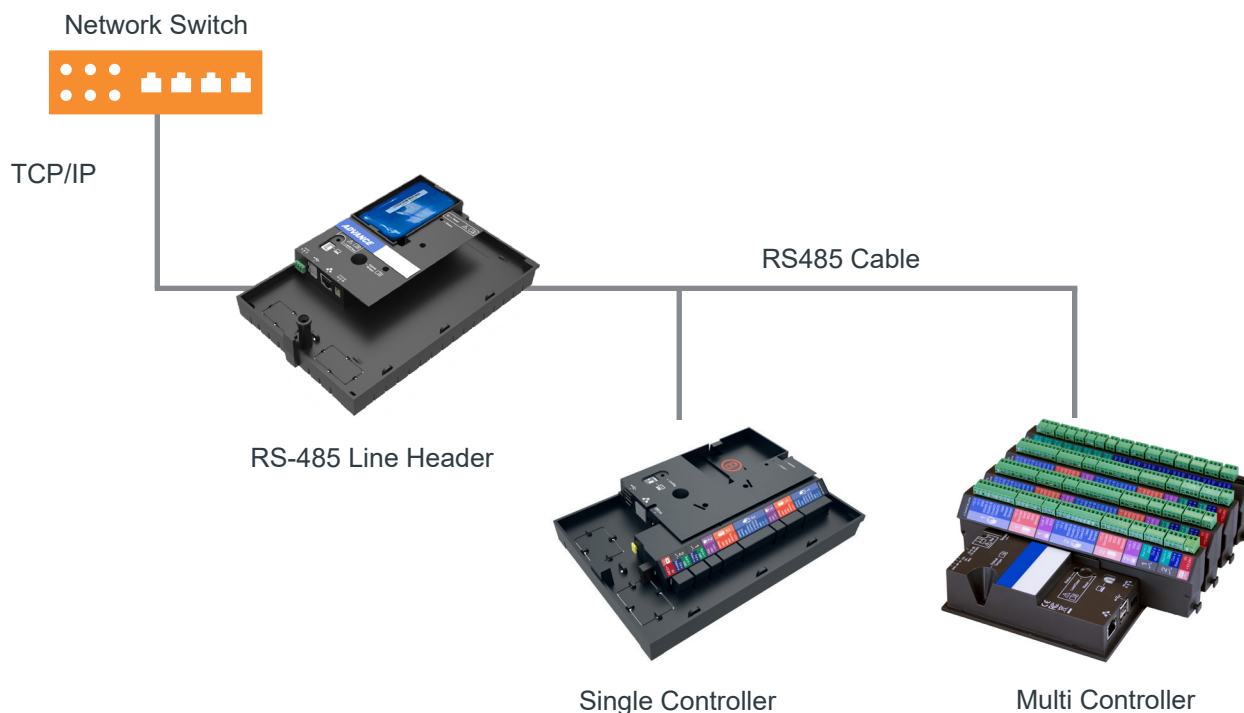
About the Janus C4 RS-485 Line Header

The Janus C4 RS-485 Line Header is an access control system controller for use with Janus C4 host software. It allows the communication of Single Controllers (Part No: JC4-ADV-C2-SNG) and/or Multi Controllers (Part No: JC4-ADV-C2-MLT) on an RS 485 communication line. The Janus C4 RS-485 Line Header is connected to the IP network and allows communication to the other controllers using RS 485.



The RS-485 Line Header can be used with different power supplies: a 12V external power supply (up to 5A), or POE/POE+. It has an integral case with built in optical tamper. The controller supports both IP and RS485 host communications.

Note: No blade can be fitted to an RS-485 Line Header, the Line Header is used to communicate to the controllers (**6 maximum**) on an RS-485 line only

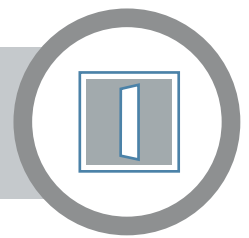


Specification

Overview	Janus C4 RS-485 Line Header
Power Input	12V (5A input), POE, POE+
Host Communications	Ethernet 10/100 BASE-T or RS485 2-wire 19.2k baud
Battery (optional)	4.2V Lithium Polymer (Grosvenor supplied, part no: ADV-BAT-S)
Tamper	Optical Tamper
USB	Dual USB 2.0 Type A (future use)
Operating Temperature	0 to +49°C (32 to 120°F)*
Humidity	5-85±5% at 30±2°C (86±4°F)
Weight	495g
Dimensions	242 x 167 x 46 mm

* When using the Lithium Poly optional battery back-up, max continuous ambient temperature is limited to 30°C (86°F)

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RS485 Connections

If RS485 is used, up to **6 Janus C4 controllers** can be daisy-chained together on a linear RS-485 line (a combination of Single-Blade and Multi-Blade controllers can be used).

- The RS-485 Line Header must be configured before attempting to add any RS-485 only controllers. The RS-485 Line Header uses IP and drives the RS-485 communication to the RS-485 controllers.
- Other linked controllers are configured as RS-485 only, note that all controllers must first be configured via IP.
- A Line Header will support up to **6 controllers maximum**, there is no limit to the number of Line Headers used on a system.
- Note that the RS-485 Line Header doesn't have to be at one end of the RS-485 line, it can be anywhere along the RS-485 line, so long as the RS-485 is a linear line (no branches/spurs).
- Fit a 120 ohm termination resistor at either end of the RS485 bus:

Electromagnetic Compatibility

This product complies with the following standards, following the provisions of EMC Directive 2014/30/EU:

- EN 55022:2010 Class B
- EN50130-4:2011 inc A1:2014
- IEC 62599-2:2010

Input Power

Power to the controller may be provided by one of:

- 12V 5A (60W max) = 2.1mm Circular Jack (centre pin positive).
- PoE (IEEE 802.3.af = 12.95W max)
- PoE+ (IEEE 802.3.at = 25.5W max)
- If fitted, the 4.2V Lithium Polymer Battery (during power outage only)

It is the responsibility of the installer to ensure sufficient power is available for the system. When selecting the most suitable power supply, you need to balance the convenience of PoE against the total requirements.

Output Power

Power draw of the controller includes the following:

- Single-Blade Controller Quiescent Power = 250 mA max @ 12V (3.0W)
- Battery Charging power (if fitted, only while battery depleted) = up to 167 mA max @ 12V (2.0W)
- USB Power (future use, if fitted) = 260mA max @ 12V (3.1W)
- Blade Power (Door Blade = 1.0 W, I/O Blade = 4.0W)

Power supply	Supplied		Used by controller	
PoE (IEEE 802.3.af)	11W	0.92A	5.0W	0.5A
PoE+ (IEEE 802.3.at)	21W	1.75A	5.0W	0.5A
12V external power supply (2.5A plug top)	30.0W	2.5A	5.0W	0.5A
12V external power supply (PSU3A-12(B))	36.0W	3.0A	3.0W*	0.33A*
12V external power supply (5A)	60.0W	5.0A	5.0W	0.5A

* Assuming no battery charging provision, as the specified PSU caters for an external battery.

