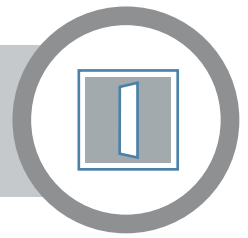


# Janus C4 485 Line Header Datasheet



Part number: JC4-ADV-C2-LH

## About the Janus C4 485 Line Header

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



The 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.

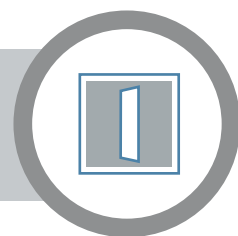


## Specification

Overview	Janus C4 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 in a line (a combination of Single-Blade and Multi-Blade controllers can be used).

- One controller must be configured as a Relay Controller, which uses both IP and RS485.
- Other linked controllers are configured as 485 only.

Note that the Relay Controller doesn't have to be at the bus end, it can be anywhere. Fit a 120 ohm termination resistor at either end of the RS485 bus:

## 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.

## 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

## 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.

