

# JACE 8000 IO R

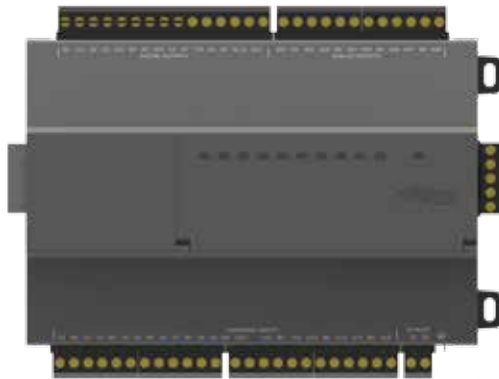
## PRODUCT DEFINITION

IO R is part of Tridium's portfolio of hardware, software and tools designed for remote monitoring and control applications that enables end-to-end automation and device-to-enterprise integration. IO R allows the JACE® 8000 to interface directly with simple non-intelligent inputs and outputs remotely located up to 4,000 feet from the JACE. The connection is established via an industry-standard RS 485 multi-drop communications bus. Multiple IO R devices can be utilized on a single JACE, providing 250+ IO points on a single JACE.

### IO-R-16



### IO-R-34



## SPECIFICATIONS

**Niagara 4** – Requires Niagara 4.3 or later

**Niagara AX** – Requires Niagara 3.8u3 or later

### IO-R-16

8 Universal inputs: Type 3 (10k) thermistors, 0-100K ohm, 0-10VDC, 0-20 mA with external resistor

4 Relay outputs (Form A contacts, 24VAC @ .5 amp rated)

4 Analog outputs (0-10VDC)

Powered from IO-R-34

Connected to JACE 8000 remotely over a shielded RS485 bus

### IO-R-34

16 Universal inputs: Type 3 (10k) thermistors, 0-100K ohm, 0-10VDC, 0-20 mA with external resistor

10 Relay outputs (Form A contacts, 24VAC @ .5 amp rated)

8 Analog outputs (0-10VDC)

Powered from a 24VAC/DC source

Can power up to 4 IO-R-16 modules

Connected to JACE 8000 remotely over a shielded RS485 bus

powered by

**niagara**  
framework®

# EXPANDABILITY

## MAXIMUM EXPANSION

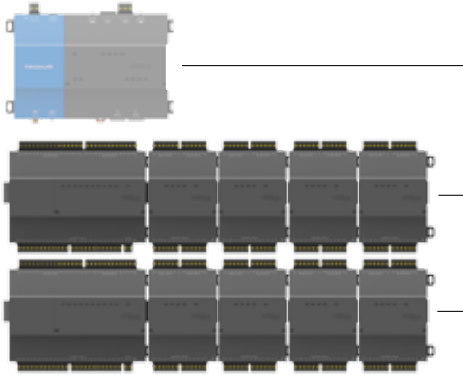
- (8) IO-R-34s  
*or*
- (16) IO-R-16s

## POWER

One IO-R-34 can power four IO-R-16 modules

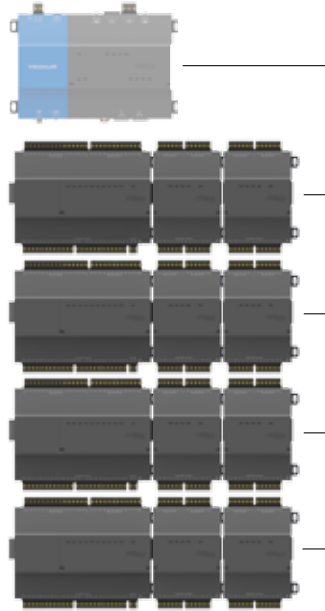
## COMMON CONFIGURATIONS

Maximum configuration  
for 2 panels

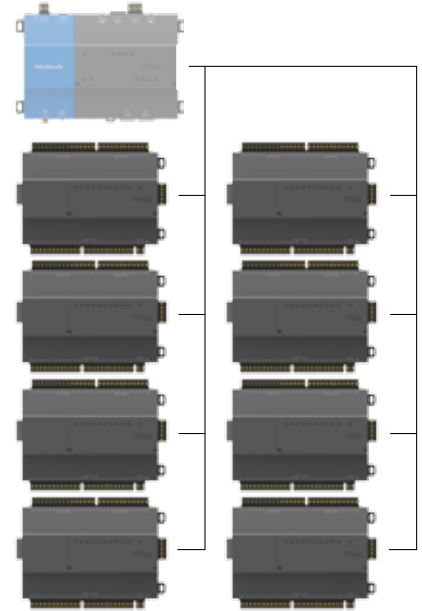


Shown with maximum of 4 IO-R-16s  
per IO-R-34

Maximum configuration  
for 4 panels



Maximum configuration  
for 8 panels



# AGENCY CERTIFICATIONS

- UL 916
- C-UL
- CE EN 61326-1:2013
- RCM
- FCC part 15, class b
- RoHS2
- REACH
- WEEE
- China ROHS
- Open Energy Management Class 2

# ENVIRONMENTAL SPECIFICATIONS

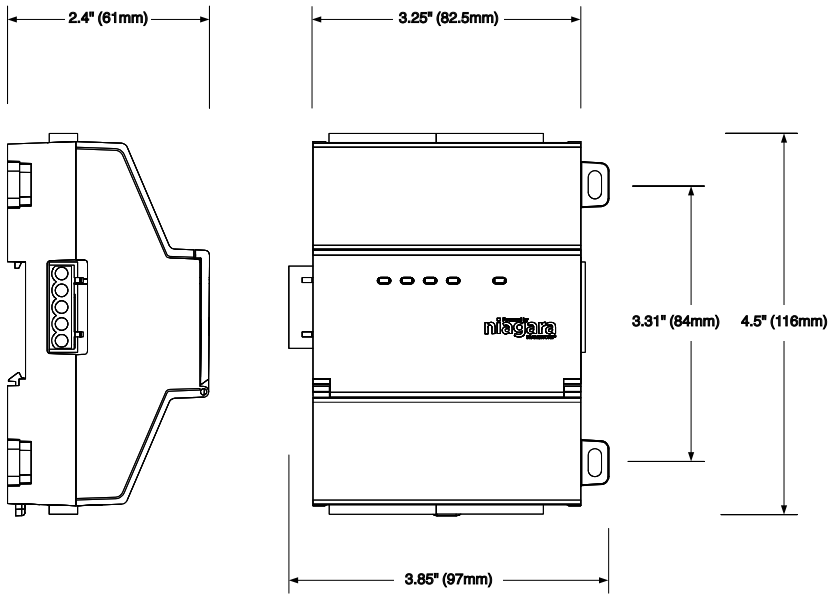
- **Operating temperature:** -20-60°C
- **Storage temperature:** -40-85°C
- **Humidity:** 5%-95% — Non condensing
- **Shipping & vibration:** ASTM D4169, Assurance Level II
- **MTTF:** 10 years+

# MOUNTING & DIMENSIONS

The JACE 8000 IO modules support mounting on EN50022 standard 7.5mm x 35mm DIN rail or panel mounting.

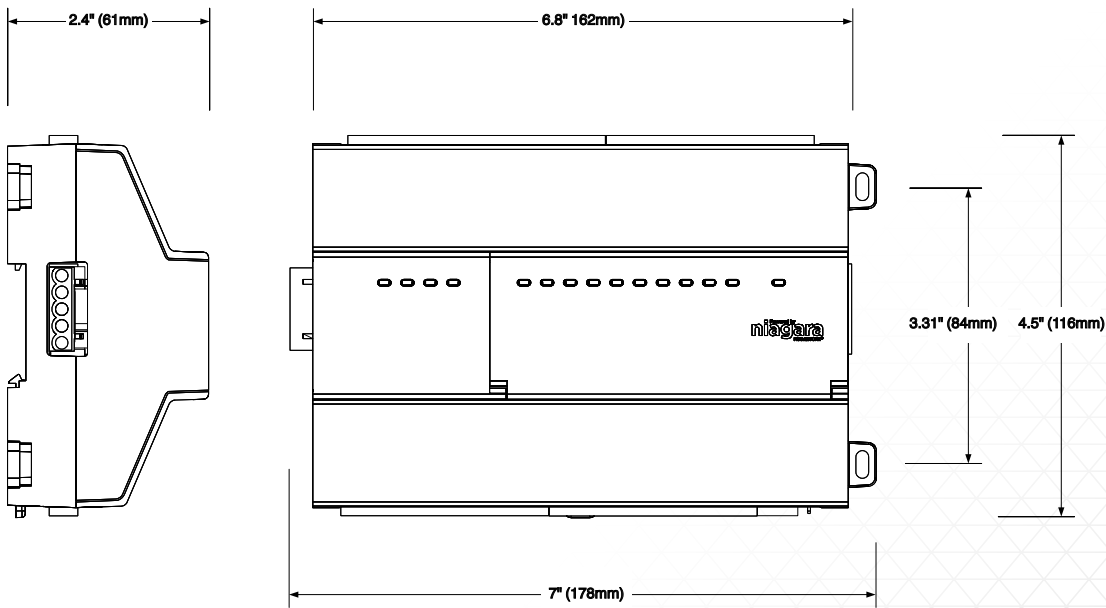
## IO-R-16

82.5mm (w) x 116mm (h) x 61mm (d) (3.25 in x 4.5 in x 2.4 in)



## IO-R-34

162mm (w) x 116mm (h) x 61mm (d) (6.8 in x 4.5 in x 2.4 in)

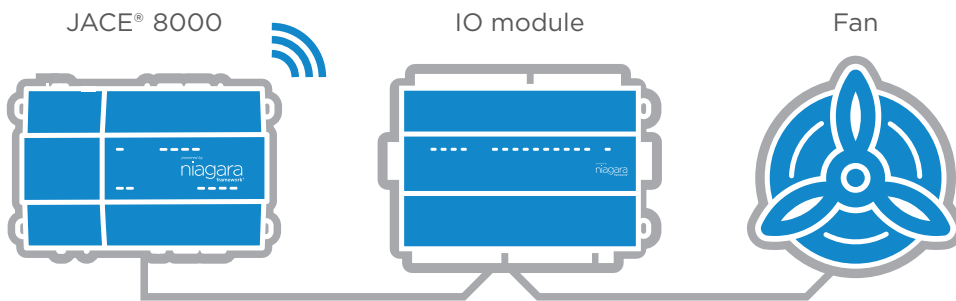




## ORDERING INFORMATION

Part number	Description
IO-R-16	16 Point IO Module. Powered by IO-R-34. Connected to JACE® 8000 remotely over RS485.
IO-R-34	34 Point IO Module. Powered by 24VAC. Capable of powering 4 IO-R-16 modules. Connected to JACE 8000 remotely over RS485.

## NIAGARA FOR REMOTE MONITORING APPLICATIONS



The JACE 8000 IO R is available through a wide variety of original equipment manufacturers. Our open distribution business model and open protocol support allow a vendor-neutral application compatible with devices and systems throughout the world.



tridium.com

### Locations and customer support, worldwide

**Headquarters**  
North America  
1 804 747 4771

**Support**  
North America & Latin America  
1 877 305 1745

Europe, Middle East & Africa  
44 1403 740290

Asia Pacific  
8610 5669 7148

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