

### 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 a JACE® contoller 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.

# 10-R-16



# 10-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 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 remotely over a shielded RS485 bus

niagara framework

# **EXPANDABILITY**

#### MAXIMUM EXPANSION

• (8) IO-R-34s

or

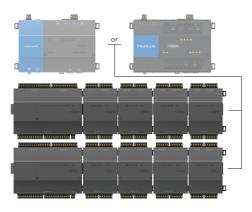
• (16) IO-R-16s

#### **POWER**

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

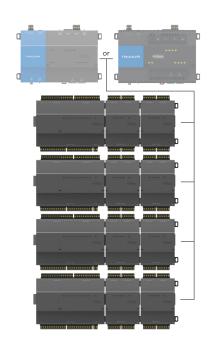
#### **COMMON CONFIGURATIONS**

Maximum configuration for 2 panels

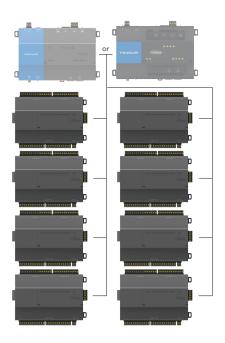


Shown with maximum of 4 IO-R-16s per IO-R-34

# 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

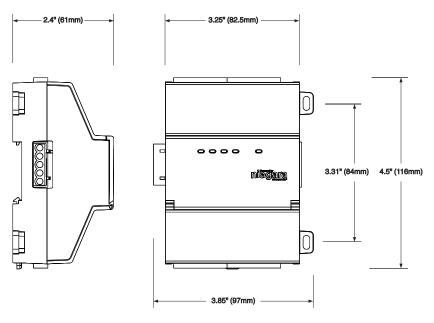
- China ROHS
- Open Energy Management Class 2

# **MOUNTING & DIMENSIONS**

The JACE IO modules support mounting on EN50022 standard 7.5mm  $\times$  35mm DIN rail or panel mounting.

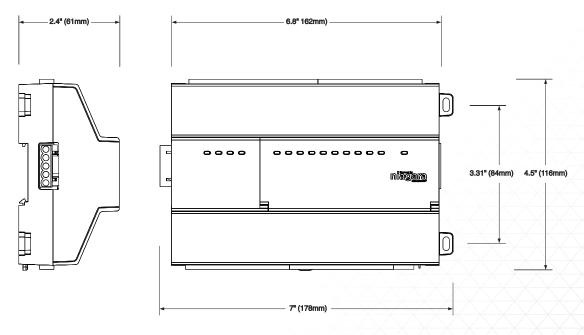
#### IO-R-16

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

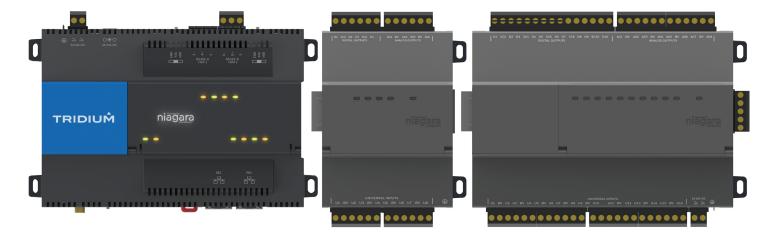


#### 10-R-34

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



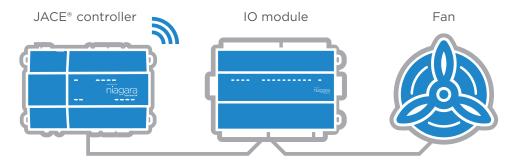




## ORDERING INFORMATION

Part number	Description
IO-R-16	16 Point IO Module. Powered by IO-R-34. Connected to JACE® 8000 or 9000 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 or 9000 remotely over RS485.

#### NIAGARA FOR REMOTE MONITORING APPLICATIONS



The JACE 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 tridium.com

Locations and customer support, worldwide

Headquarters

Support North America North America & Latin America 1804 747 4771 1 877 305 1745

Europe, Middle East & Africa 44 1403 740290

Asia Pacific 86 400 818 6088

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