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.

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
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

Maximum configuration for 4 panels

Maximum configuration for 8 panels

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

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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IO-R-16</td>
<td>16 Point IO Module. Powered by IO-R-34. Connected to JACE® 8000 remotely over RS485.</td>
</tr>
<tr>
<td>IO-R-34</td>
<td>34 Point IO Module. Powered by 24VAC. Capable of powering 4 IO-R-16 modules. Connected to JACE 8000 remotely over RS485.</td>
</tr>
</tbody>
</table>

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.

Locations and customer support, worldwide

Headquarters
North America
1804 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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