EC-BOS-8 IO Modules



Overview

The EC-BOS-8 IO-R modules are part of the EC-Net portfolio of hardware, software and tools designed for remote monitoring and control applications that enables end-to-end automation and device-to-enterprise integration. The IO-R modules allow the EC-BOS-8 to interface directly with simple non-intelligent inputs and outputs remotely located up to 4,000 feet from the EC-BOS-8. The connection is established via an industry-standard RS-485 multi-drop communications bus. Multiple IO-R devices can be utilized on a single EC-BOS-8, providing 250 + IO points on a single EC-BOS-8.

Features & Benefits

- Direct pin out replacement of NDIO IO-16 and IO-34 modules
- Remote connection to EC-BOS-8 over RS485
- · Remote monitoring of input devices
- Basic control applications



Model Selection

Example: IO-R-34

Series	Number of points
IO-R	-16: 16-Point IO Module
	-34: 34-Point IO Module

Product Specifications

General

Universal inputs IO-R-16: 8 inputs

IO-R-34: 16 inputs

Type 3 (10K) thermistors

0-100ΚΩ 0-10VDC

0-20mA with external resistor

Relay outputs IO-R-16: 4 (Form-A contacts, 24VAC

@ 0.5 amp rated)

IO-R-34: 10 (Form-A contacts, 24VAC

@ 0.5 amp rated)

Analog outputs IO-R-16: 4 (0-10VDC)

IO-R-34: 8 (0-10VDC)

Power IO-R-16: powered from IO-R-34

IO-R-34: powered from a 24VAC/DC source (can power up to 4 IO-R-16

modules)

Connection Connected to EC-BOS-8 remotely

over a shielded RS-485 bus

Mounting and Dimensions

Mounting Options - EN50022 standard 7.5 mm x 35 mm

DIN rail

- Panel mounting

Dimensions IO-R-16: 82.5mm (w) x 116mm (h) x

61mm (d) (3.25 in x 4.5 in x 2.4 in) -

see Figure 1

IO-R-34: 162mm (w) x 116mm (h) x

61mm (d) (6.8 in x 4.5 in x 2.4 in) -

see Figure 2

Environmental Specifications

Operating Temperature -20 to 60°C Storage Temperature -40 to 85°C

Humidity 5% to 95% — Non-condensing

Shipping & Vibration ASTM D4169, Assurance Level II

MTTF 10 years+

Operating Systems

EC-Net 4 4.3 or later

Expandability

Maximum Expansion IO-R-34: 8

IO-R-16: 16

Power: One IO-R-34 can power four

IO-R-16 modules

Common Configurations Maximum configuration for 2 panels:

see Figure 3 (shown with maximum of

4 IO-R-16s per IO-R-34).

Maximum configuration for 4 panels:

see Figure 4.

Maximum configuration for 8 panels:

see Figure 5.

Agency Certifications

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







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Dimensions

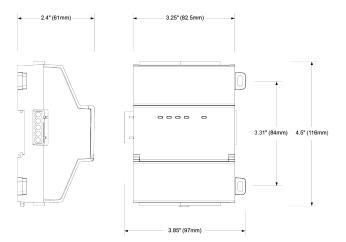


Figure 1: IO-R-16 dimensions

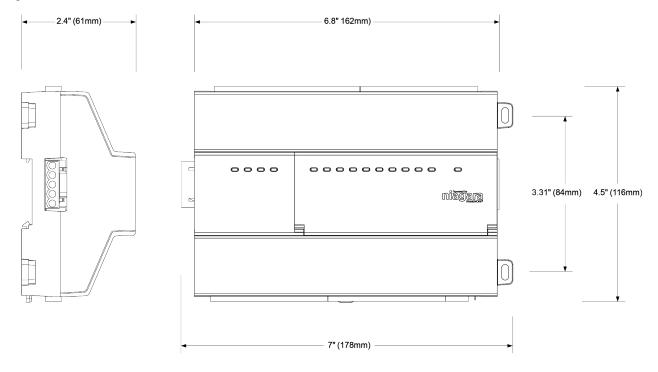


Figure 2: IO-R-34 dimensions

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Maximum Configuration

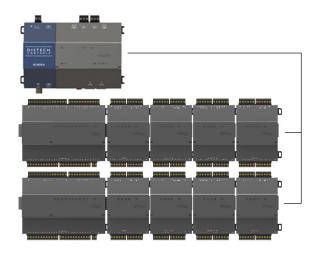


Figure 3: Maximum configuration for 2 panels with maximum of 4 IO-R-16s per IO-R-34

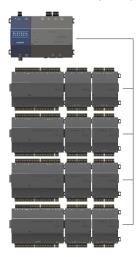


Figure 4: Maximum configuration for 4 panels

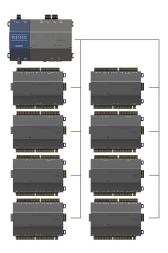


Figure 5: Maximum configuration for 8 panels

Specifications subject to change without notice.

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