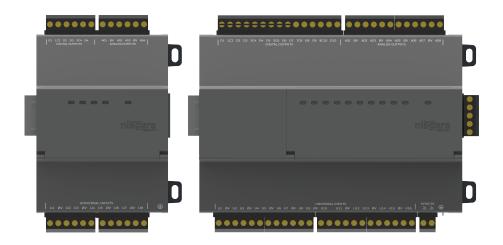
□ □ □ EC-BOS-8 IO Modules



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.

Applications

- Direct pin out replacement of NDIO IO-16 and IO-34 modules
- Remote monitoring of input devices
- Basic control applications



Model Selection

IO-R-16	16 Point IO Module. Powered by IO-R-34. Connected to EC-BOS-8 remotely over RS485
IO-R-34	34 Point IO Module. Powered by 24VAC. Capable of powering 4 IO- R-16 modules. Connected to EC-BOS-8 remotely over RS485

Product Specifications

General (IO-R-16)	
Universal Inputs	8 inputs
Type 3 (10K) thermistors	
0-100ΚΩ	
0-10VDC	
0-20mA with external resistor	
Relay Outputs	4 (Form A contacts, 24VAC @ 0.5 amp rated)
Analog Outputs	4 (0-10VDC)
Power	Powered from IO-R-34
Connection	 Connected to EC-BOS-8 remotely over a shielded RS485 bus
General (IO-R-34)	
Universal Inputs	16inputs
Type 3 (10K) thermistors	
0-100ΚΩ	
0-10VDC	
0-20mA with external resistor	
Relay Outputs	10 (Form A contacts, 24VAC @ 0.5 amp rated)
Analog Outputs	
Power	Powered from a 24VAC/DC source

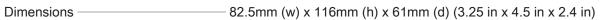
Power — Powered from a 24VAC/DC source Can power up to 4 IO-R-16 modules Connection — Connected to EC-BOS-8 remotely over a shielded RS485 bus

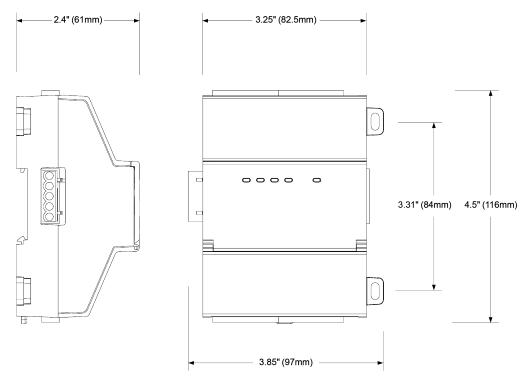


Mounting and Dimensions

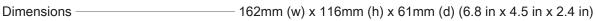
The EC-BOS-8 IO modules support mounting on EN50022 standard 7.5mm x 35mm DIN rail or panel mounting.

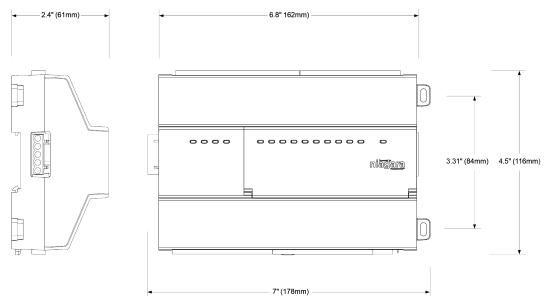
IO-R-16:











Environmental Specifications

Operating temperature	20–60°C
Storage temperature	40–85°C
Humidity	
Shipping & vibration	ASTM D4169, Assurance Level II
MTTF	10 years+

Operating Systems

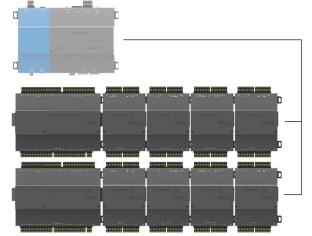
EC-Net 4	4.3 or later
EC-Net ^{ax}	3.8.3xx or later

Expandability

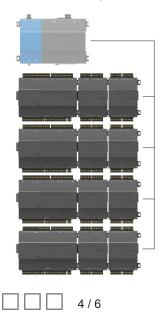
IO-R-34	8
IO-R-16	16
Power	One IO-R-34 can power four IO-R-16 modules

Common Configurations:

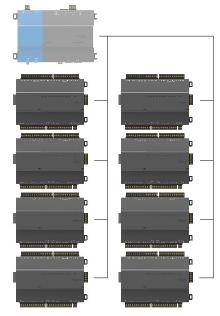
Maximum configuration for 2 panels. Shown with maximum of 4 IO-R-16s per IO-R-34:



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
- □ China ROHS
- Open Energy
- □ Management Class 2



Specifications subject to change without notice. Distech Controls, the Distech Controls logo, Innovative Solutions for Greener Buildings, EC-Net, ECO-Vue, Allure, and Open-To-Wireless are trademarks of Distech Controls Inc.; LonWorks, LON, and LNS are registered trademarks of Echelon Corporation; BACnet is a registered trademark of ASHRAE; BTL is a registered trade-mark of the BACnet Manufacturers Association; Niagarav Framework is a registered trademark of Tridium, Inc.; EnOcean is a registered trademark of EnOcean GmbH. All other trademarks are property of their respective owners. ©, Distech Controls Inc., . All rights reserved.

