

CR-IO-40MULTI-IP

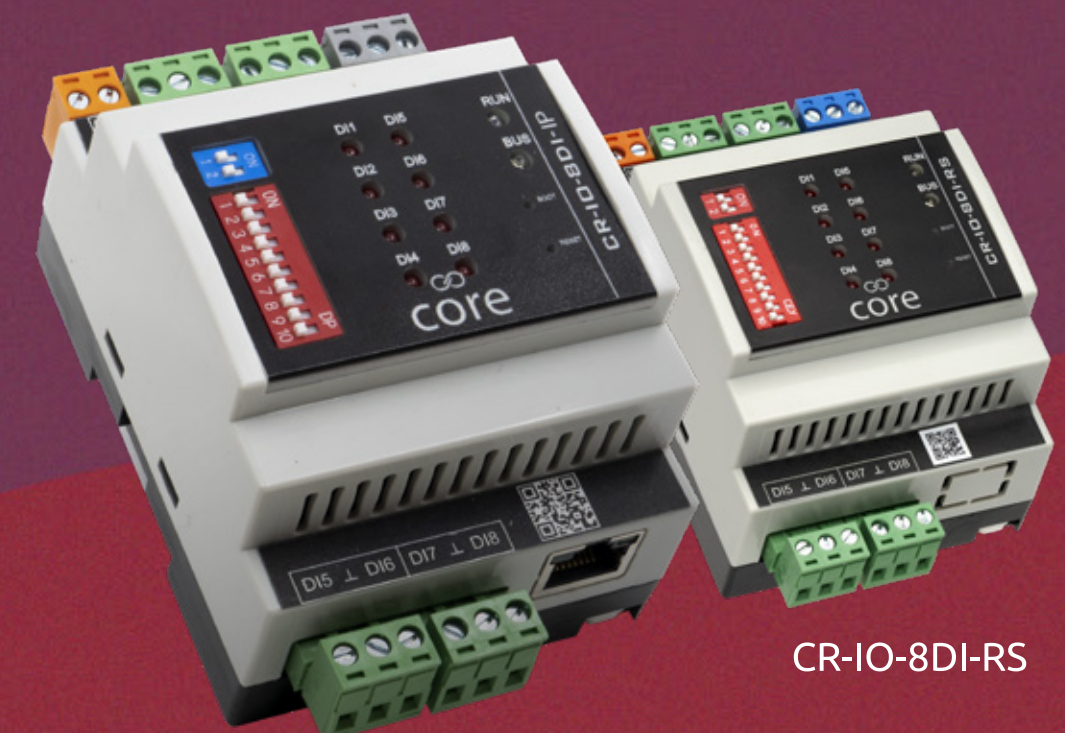
CR-IO-40MULTI-RS

## Core IO Range



CR-IO-16DI-IP

CR-IO-16DI-RS



CR-IO-8DI-IP

CR-IO-8DI-RS

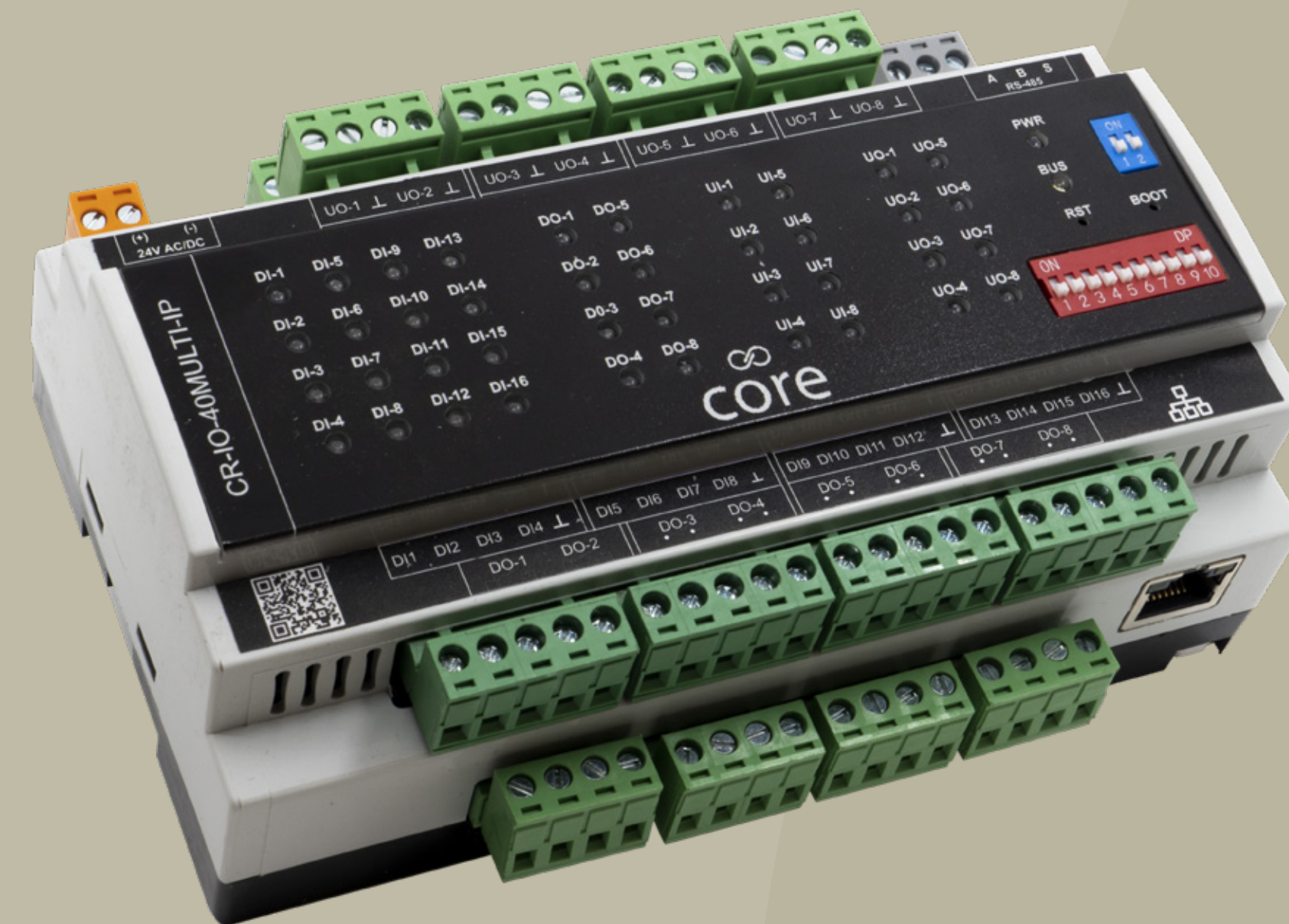
# Overview

Built to help engineers all over the World win more Open Protocol Building Automation Projects.

Compared to any other mainstream Open Protocol IO modules, Core IO covers more IO points using fewer IO modules with an overall smaller footprint.

Core IO significantly reduces the commissioning time using Bluetooth connectivity and an Android app as the main way to set up the units.

The Core IO range is compatible with all modern Building Automation Systems, and it includes 6 different IO modules supporting Modbus IP or Modbus RS485 depending on the model.



# Benefits



## STAND OUT

Create unique and powerful Building Automation Solutions combining various products from different manufacturers using the Open Protocol Modbus.



## INCREASE PRODUCTIVITY

Using universal inputs and outputs, you can cover more control points with less IO modules, all in a smaller panel footprint using universal inputs and outputs.






## SAVE TIME

Simplify the installation process and save precious commissioning time.

[www.innon.com/coreio](http://www.innon.com/coreio)

# Key Features

- Bluetooth Communication & Android app for setup.   
- DIP Switches for addressing and comms settings.
- Configuration via the Modbus registers.
- Opto-isolated RS485 port.
- Measurement of Current and Voltage without using external resistors.
- Power with either AC or DC (24V)
- LEDs for status and fault indication.
- Modbus Slave simultaneously on IP and RS485 port.
- Niagara 4 Palette.



Contact a member of the team to discuss ordering a demo version of Core IO at [sales@innon.co.uk](mailto:sales@innon.co.uk)

# Core IO Models Comparison

Part Number	Modbus TCP/IP Slave	Modbus RTU Slave	IP Port	RS485	Bluetooth Setup	DI	UI	DO	UO
CR-IO-40MULTI-RS	-	Yes	-	Yes	Yes	16	8	8	8
CR-IO-8DI-RS	-	Yes	-	Yes	Yes	8	-	-	-
CR-IO-16DI-RS	-	Yes	-	Yes	Yes	16	-	-	-
CR-IO-40MULTI-IP	Yes	Yes	Yes	Yes	Yes	16	8	8	8
CR-IO-8DI-IP	Yes	Yes	Yes	Yes	Yes	8	-	-	-
CR-IO-16DI-IP	Yes	Yes	Yes	Yes	Yes	16	-	-	-

# Core IO Input/Output types

I/O	DI	UI	DO	UO
<b>DI (Volt Free Status)</b> Direct/Reverse	Yes	Yes (*)	-	Yes
<b>DI (Volt Free Pulse)</b> 100Hz, max 50 Ohm	Yes	-	-	Yes
<b>DO (Volt Free Relay)</b> Direct/Reverse 230Vac/30Vdc, max 5A	-	-	Yes	-
<b>DO (Transistor Output)</b> Direct/Reverse 0-10Vdc, max 20mA	-	-	-	Yes
<b>AO (Analogue Outputs)</b> 0-10V/2-10V, max 20mA	-	-	-	Yes
<b>UI (Passive Inputs)</b> Pure Resistance, PT1000, NI1000, NTC10K3A1, NTC10K4A1, NTC18K, NTC10K Carel, NTC20KA1, NTC2.2K, NTC3.3K	-	Yes	-	-
<b>UI (Active Inputs)</b> 0-10V/2-10V 0-20mA/4-20mA	-	Yes	-	-

(\*) Reading the pure Ohm resistance 16 bit unsigned register and creating the logic in the Automation Controller to turn Open Circuit / Closed Circuit Ohm values into an On/Off status.



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