

## Description

A bespoke Industrial Controller installed into an existing BEMS panel - programmed for the site based on specific requirements from client's BEMS engineers to integrate the Genius Hub into the existing BEMS for control and fault reporting. To provide interaction between the Genius Hubs and a 'traditional' control system consisting of 24VDC / 230VAC such as a BEMS.

## Interface

- 2 x RJ45 10/100 Ethernet (using separate MAC addresses)
- 1 x RS485 screw-type terminal
- 1 x Micro HDMI
- 1 x PiBridge system bus
- 1 x ConBridge system bus

## Features

- Heating Demand
- Detect Genius Hub Comms Fault
- Detect Genius Hub Remote Hub Fault
- Detect Genius Hub Software Update

## Technical Data

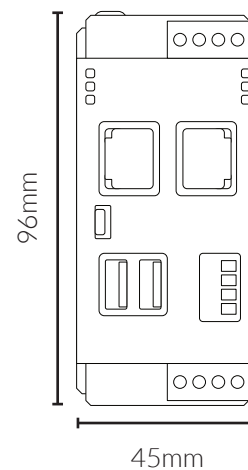
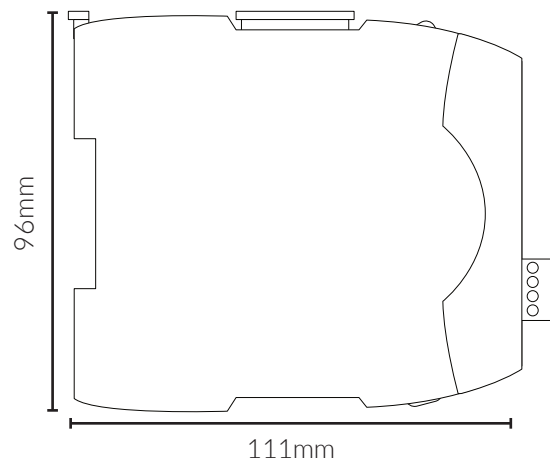
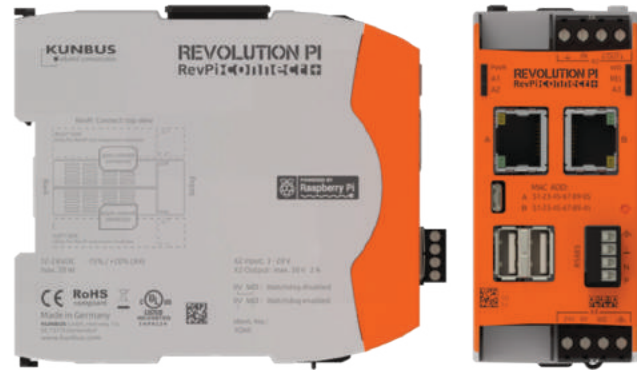
- Power Supply: 12-24 V DC -15 % / +20 %, reverse-polarity protected
- Operating Temperature: -25°C to 55°C
- Relative Humidity: 5% to 85%
- Enclosure Protection: IP20
- Processor: Broadcom BCM2837B0 quad-core ARM Cortex A53
- Clockrate: 1.2 GHz
- Weight: approx. 197 g / 224 g (incl. connectors)
- RoHS: Compliant
- Indoor Use Only

## Additional Considerations

- Genius Industrial Controller needs to be on the same LAN (Local Area Network) or VLAN (Virtual Local Area Network) as the Genius Hubs it is to talk with
- Fits onto standard DIN-Rail mounting
- Must be installed within an enclosure to provide mechanical & ingress protection

## Revolution Pi Connect+ & Digital IO

SKU: KB-BIC-A



## REVOLUTION PI

### Description

Digital IO (In/Out) module only to be used in conjunction with the Genius Industrial Controller and is installed alongside the Industrial controller in a BEMS cabinet.

### Interface

- 2 x 4-pole screw-type terminal for power supply
- 2 x 14-pin socket connectors with spring clamp contacts (0.2 - 1.5 mm<sup>2</sup>)
- For IOs, pitch 3.5 mm (Wieland Item No. 27.630.4453.0)

### Features

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### Technical Data

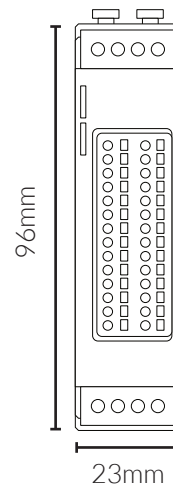
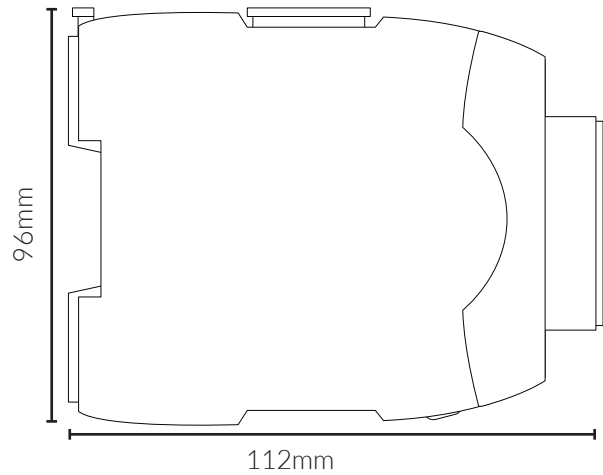
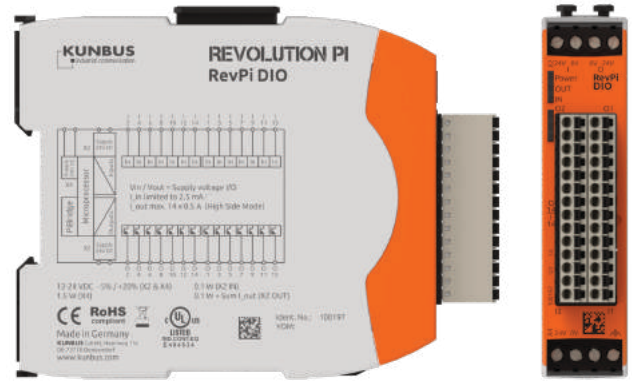
- Power Supply: 12-24 V DC -5 % / +20 %
- Operating Temperature: -40°C to 55°C
- Relative Humidity: 5% to 85%
- Enclosure Protection: IP20
- Frequency: 2 kHz (corresponding to 500 Hz encoder sequence)
- Clockrate: 1.2 GHz
- Weight: approx. approx. 100 g / 130 g (incl. connectors)
- RoHS: Compliant
- Indoor Use Only

### Additional Considerations

- Fits onto standard DIN-Rail mounting
- Must be installed within an enclosure to provide mechanical & ingress protection

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## REVOLUTION PI