

INTRODUCTION

The ionware **ionC1** controller board when combined with the amazing **Raspberry Pi SBC range*** represents a quantum leap in **Internet of Things (IoT)** Plug N Play engineering platforms.

With 7 Universal Inputs, 5 DO and 2 ADO Outputs in a small form package, the **ionC1** provides the ultimate in flexibility for any IoT project, whether it is Educational, Maker, Commercial, Hobbyist or Industrial application.

Combined with **openHAB** platform the **ionC1** provides almost unlimited opportunity and scope for all **IoT** projects; from Smart Homes to Smart Buildings to Smart Farming etc.

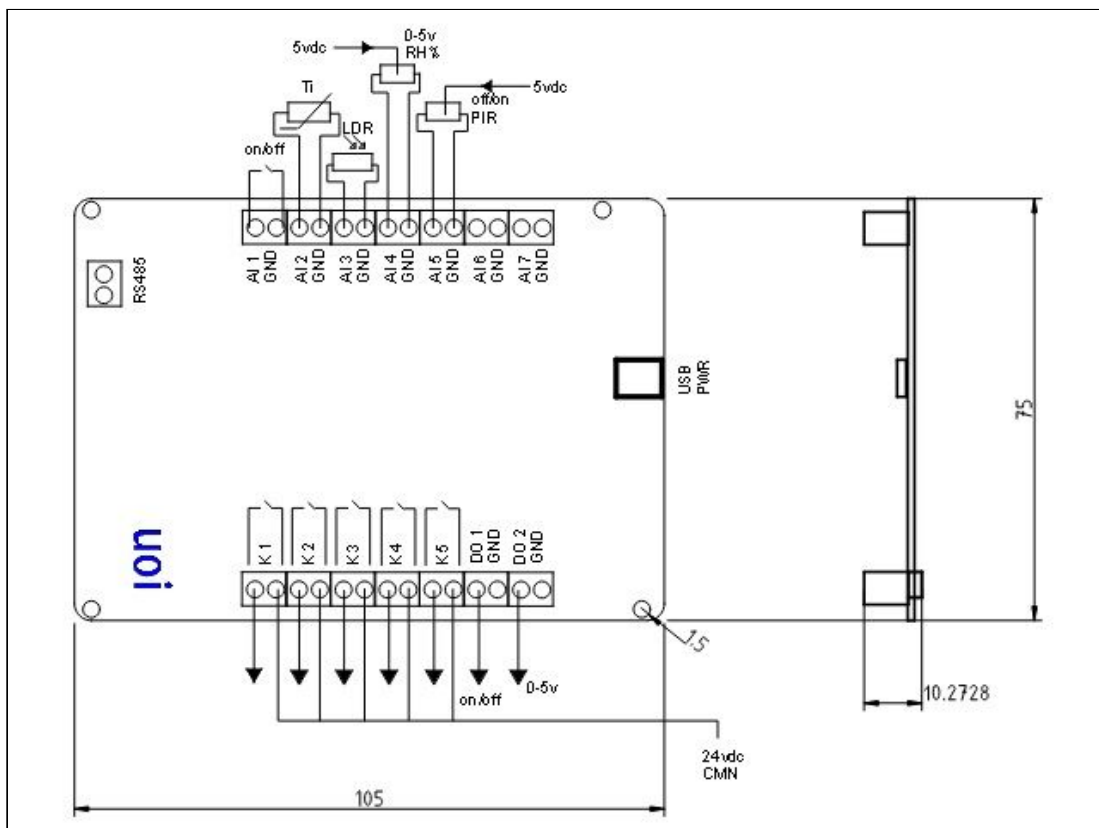
**Not supplied*



FEATURES

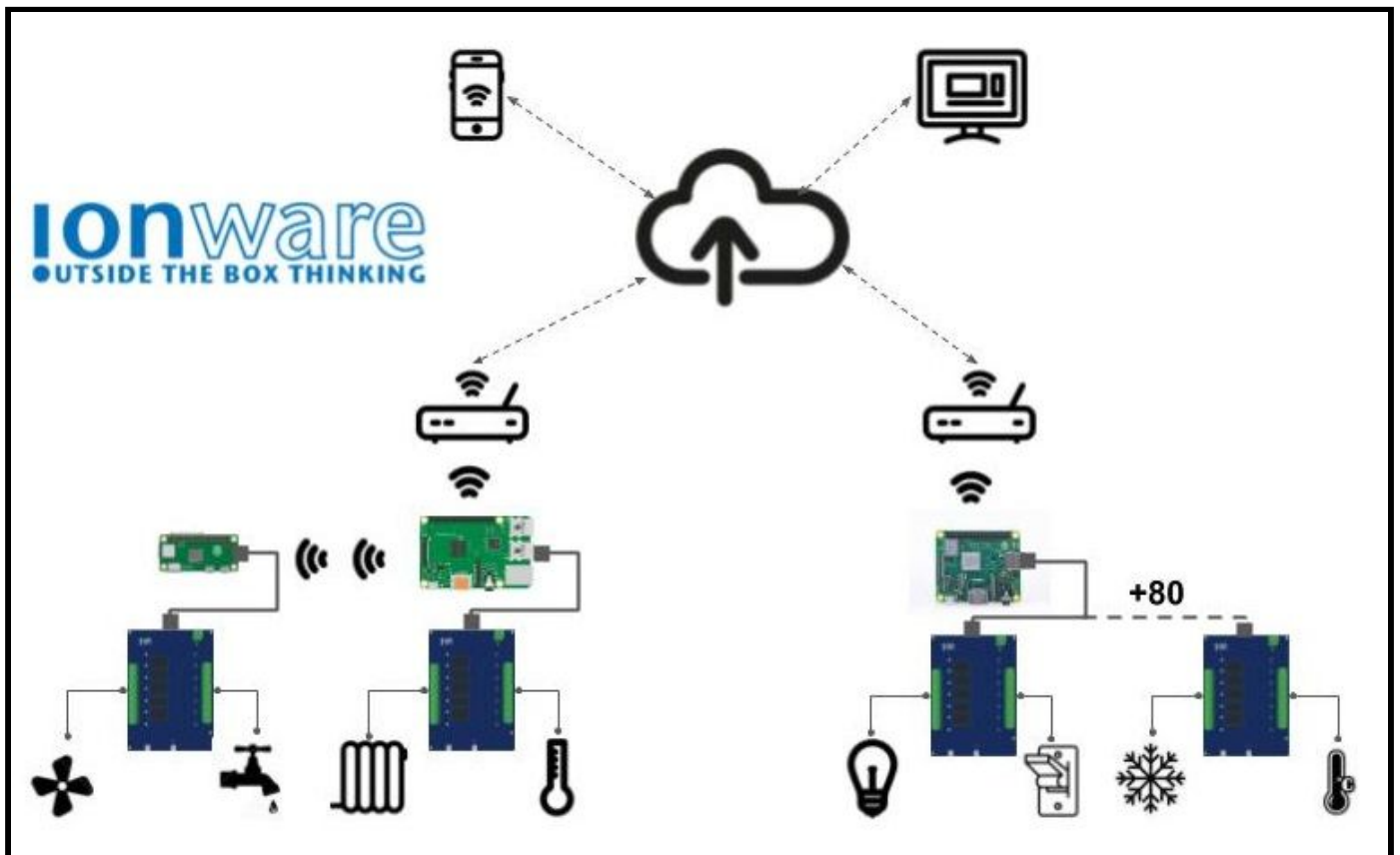
- Rugged, Reliable unit with a **3 Year Warranty** and UL and CE Compliance.
- Max 15 I/O = 7UI, 5DO (24VAC/DC Relay), 2ADO (0-5v), 1Tint (Onboard Temperature sensor)
- Universal Inputs can be setup for almost any sensor; RH, PIR, LDR, Pressure, CO2 etc.
- Free issue ionware **PlugNPlay** application c/w powerful industrial level **SoftLogic** programming.
- **openHAB** IoT system running on **Raspian** Linux OS with multiple plugin applications
- As standard **Grafana** GUI data analysis and trend charting using **Influx** database application

DIMENSIONS & WIRING



SPECIFICATIONS	Universal Input Type Settings		
<p>Temperature range.....10-70°C Power consumption.....100mA at 5VDC Operation.....10-70°C Temperature sensor..... 10K thermistor ±0.5°C Weight88g</p> <p>Input/Outputs Power Supply: USB 5v 1 to 2A micro to STD adapter and cable RS485 Coms: ion USB Dongle to +/- Screw Terminals RS485 Network: +80 ionC1 units*/RPI unit. Local WiFi - Many multiple RPi+ionC1 units. Digital Outputs: 5 x DO @ 2A/30VDC/0.5A/125VAC 1. Analog Digital Outputs: 2 x Type 0 = ON/OFF (5v-0v) (c/w white LED ON/OFF) 2. Analog Digital Outputs: 2 x Type 2 = Analog (5v-0v)</p> <p><i>*Depends on application, check with info@ionware.io</i></p>	<div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="radio"/> 0. Unused <input type="radio"/> 1. 10K Thermistor Type2 <input type="radio"/> 2. 0-100% <input checked="" type="radio"/> 3. On/Off <input type="radio"/> 4. Custom Sensor 1 <input type="radio"/> 5. Off/On <input type="radio"/> 6. Custom Sensor 2 <input type="radio"/> 7. Occupied/Unoccupied <input type="radio"/> 8. Unoccupied/Occupied </td> <td style="width: 50%; vertical-align: top;"> <input type="radio"/> 9. Open/Close <input type="radio"/> 10. Close/Open <input type="radio"/> 11. 10K Thermistor Type3 <input type="radio"/> 12. 4-20ma <input type="radio"/> 13. 50K Thermistor <input type="radio"/> 14. Voltage </td> </tr> </table> <p><i>NB: Input types 1-14 set by ionware SoftLogic subroutine</i></p> </div>	<input type="radio"/> 0. Unused <input type="radio"/> 1. 10K Thermistor Type2 <input type="radio"/> 2. 0-100% <input checked="" type="radio"/> 3. On/Off <input type="radio"/> 4. Custom Sensor 1 <input type="radio"/> 5. Off/On <input type="radio"/> 6. Custom Sensor 2 <input type="radio"/> 7. Occupied/Unoccupied <input type="radio"/> 8. Unoccupied/Occupied	<input type="radio"/> 9. Open/Close <input type="radio"/> 10. Close/Open <input type="radio"/> 11. 10K Thermistor Type3 <input type="radio"/> 12. 4-20ma <input type="radio"/> 13. 50K Thermistor <input type="radio"/> 14. Voltage
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ionware IoT CLOUD



PROGRAMMING - ionware SoftLogic

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end.