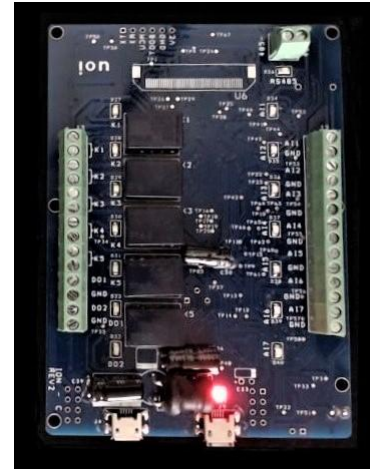


## INTRODUCTION

The ionware **ionC1** controller board when combined with the amazing **iBox range and Orion Cloud Platform** 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.

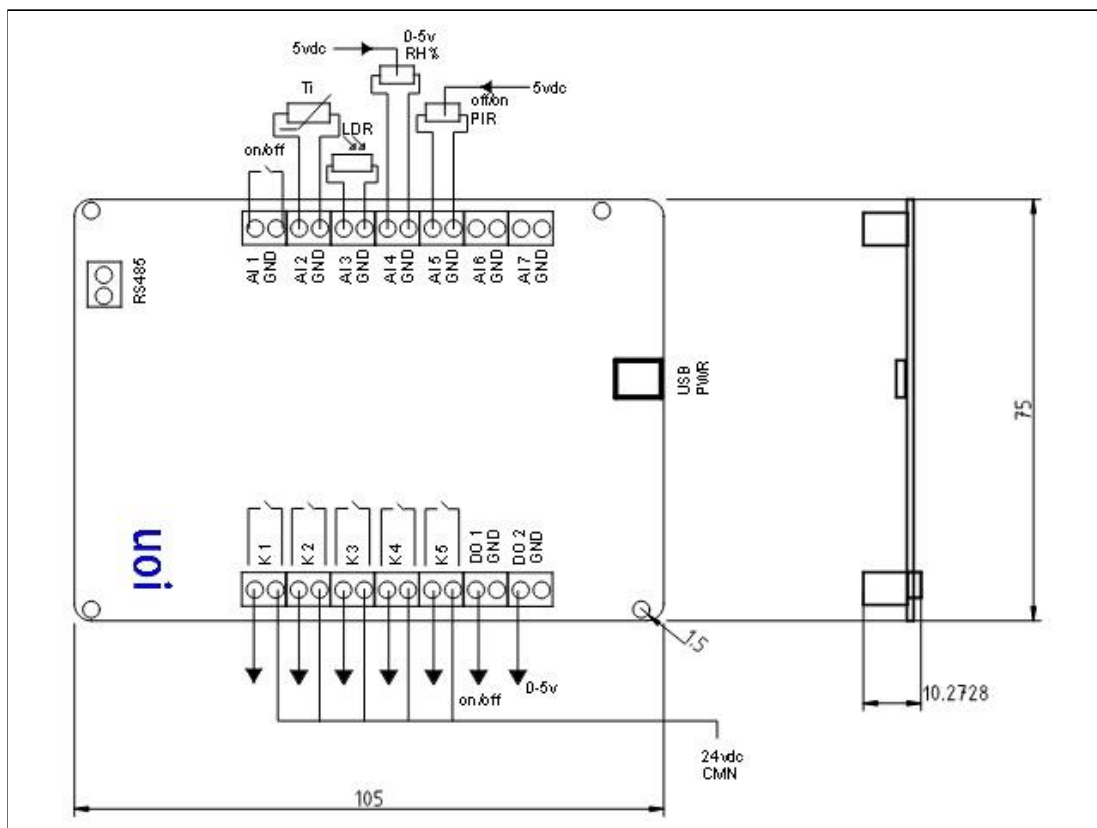
Combined with Node-RED platform the **ionC1** provides almost unlimited opportunity and scope for all **IoT** projects; from Smart Homes to Smart Buildings to Smart Farming etc.



## FEATURES

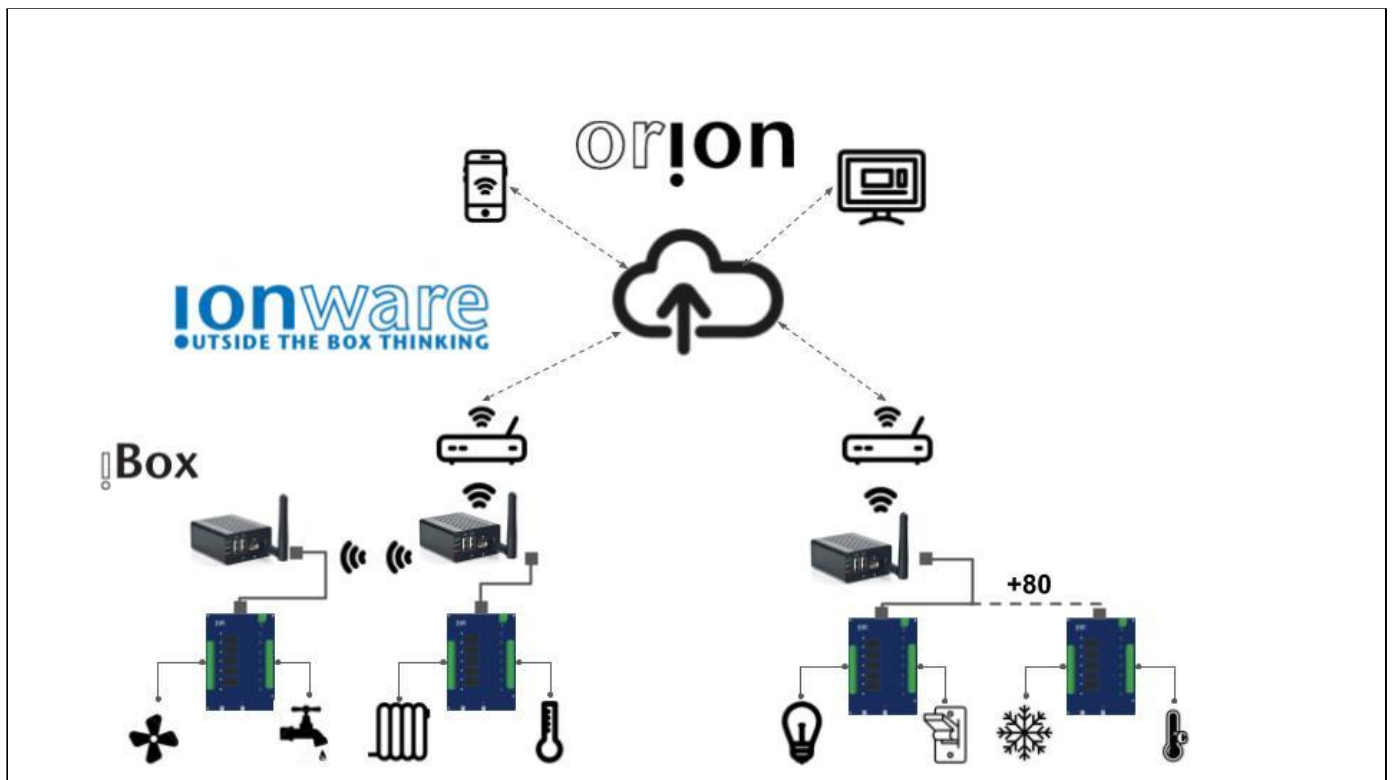
- Rugged, Reliable unit with a **3 Year Warranty** and UL and CE Compliance.
- Max 15 I/O = 7UI, 5DO (24VAC/DC Relay), 2ADO (0-5v), 1 Tint (Onboard Temperature sensor)
- Universal Inputs can be set up for almost any sensor; RH, PIR, LDR, Pressure, CO2 etc.
- Free issue ionware **PlugNPlay BMS** applications c/w powerful industrial level **algorithmic** programming.
- **Node-RED** IoT system running on Linux OS with multiple plugin applications
- All remote Graphing and control via MQTT to **free Orion Cloud** account
- **Modbus** RS485 serial communications with open access to config registers, uid, baud speed etc.

## 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            Weight .....388g</p> <p><b>Input/Outputs</b>            Power Supply: USB 5v 1 to 2A micro to STD adapter and cable            RS485 Coms: ion USB Dongle to +/- Screw Terminals            RS485 Network: +80 <b>ionC1</b> units*/iBox unit.  <b>Local WiFi</b> - Many multiple iBox+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><small>*Depends on application, check with <a href="mailto:info@ionware.io">info@ionware.io</a></small></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 iBox Config Page</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 iBox and IoT Orion Cloud Platform



end.