

Micro Edge IO-3 Specifications (Hardware V1)



General Specifications:	
Batteries	3x AA Batteries (5.5V MAX)
Life Span	3-5 years (3 at 1 minute push intervals, 5 at 24 hour push intervals). Depending on AA battery capacity and pulse frequency. Environmental conditions may also affect battery life.
Operating Temperature	-40 ~ 85°C



LoRa Capabilities:	
Supported Frequencies	868/915Mhz
Spreading Factor	6-12
Bandwidth	7.8 - 500 kHz
Effective Bitrate	.018 - 37.5 kbps
Est. Sensitivity	-111 to -148 dBm
Push Intervals (User Configurable)	1 Minute, 5 Minutes, 15 Minutes, 30 Minutes, 1 Hour, 3 Hours, 10 Hours, 12 Hours, 24 Hours

Input and Storage Specifications:	
Max Pulse Count (Stored Locally)	2,147,483,647
Inputs	Thermistor, PIR, 0-10V, Pulse Meter, Reed Switch
# of Writes	MB85RC256V - 1,000,000,000,000
Data retention	10 years (+ 85 °C), 95 years (+ 55 °C), over 200 years (+ 35 °C)

Enclosure	
Width	145mm
Height	40mm
Depth	65mm
Material	ABS Plastic
Gasket Material	Neoprene
Dust/Particle Ingress Protection	6 - Dust tight
Liquid/Moisture Ingress Protection	5 - Water Jets
IP Rating	IP65



Serial Baud Rate

115200



Dip switch

- dip_1 timing
- dip_2 timing
- dip_3 testing
- dip_4 reset pulse
- dip_1 & dip_2 & dip_3 & dip_4 - hard reset

Dip 1 and 2 set the timing

- 00 = 15m (Default)
- 10 = 5min
- 01 = 30min
- 11 = 60min

Jumper Settings DONT USE THIS IS INCORRECT

Mode	Purpose	Setting
10K Resistor	Connect a thermistor to the input and common.	
0-10 VDC	Measuring 0-10 VDC.	



About Nube iO

Designed by HVAC controls experts, Nube iO provides a reliable and economical platform to control and monitor your HVAC system. With emphasis on utilizing open platforms and device security Nube iO allows you to break free from restrictive BMS platforms without the huge cost of having to replace existing controllers.

Born in the age of IoT, Nube iO provides you with the ability to access your data from the web. No longer do you need hundreds of sensors or a huge budget in order to get your data online. Whether you have one sensor or thousands, the scalability of the platform makes it economical regardless of the size of your system.

To learn more about our products and solutions, visit: ***nube-io.com***

