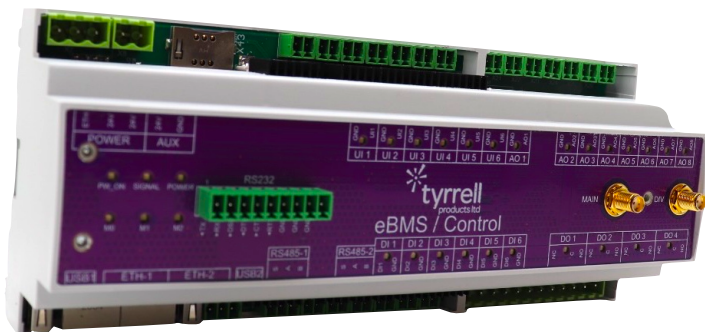




## Description:

- IONA Intel is an official Tridium portability device powered by Niagara 4. Designed for applications in OEM plant control, IoT deployments, smart buildings and edge to cloud analytics. The Controller comprises a complete set of onboard IO, wired & wireless interfaces. It provides easy integration and powerful interfaces based on Tridium Niagara 4.
- Intel Elkhart Lake Dual Core Processor
- Power on to Station Running in as little as 45 seconds
- Niagara 4.15
- Integrated IO (6 UI / 6 DI / 4 DO / 8 AO)
- 2x Ethernet, 2x RS485 & 1x RS232 connectivity
- Integrated LoRa Gateway & Network Server
- Up to 4x faster than existing Niagara based controllers

## Tech Specs

Intel Elkhart Lake Dual Core  
2x 1.5 GHz  
4GB DDR4-3200 RAM  
32GB eMMC Storage  
(22GB Free Space)

## OS

Debian 11

## Niagara 4

N4.15

100 / 250 / 500 / 1250 / 2500 / 5000 /  
10,000 Point Licenses

Upgrades available from 50 Points

12 Months Software Maintenance

Classed as a Niagara Network EDGE  
Device When Licensed < 150 Points.  
EDGE Connection is 1/10 of a JACE

## LoRa

Integrated Gateway Concentrator  
Onboard Chirpstack Network Server  
868 MHz Standard (916MHz on request)  
Dedicated Niagara 4 Driver

## Performance

Power on to Platform Access: 30s  
Power on to Station Access: 45s

## Specification

|                   |                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comms             | 2x Ethernet<br>2x RS485<br>1x RS485 eBMSIO<br>1x RS232                                                                                                                                                                 |
| I/O               | 6x Universal Inputs<br>(0-10v / 4-20mA / NTC / Monitor / DI / Pulse)<br>6x Digital Inputs<br>(DI / Pulse Count)<br>4x Digital Output<br>(Max 5A / 230v)<br>8x Analogue Output<br>(0-10v / 20mA Max / No Relay Support) |
| IO Points Consume | 1x Global Point License                                                                                                                                                                                                |
| LoRa              | Integrated LoRa Gateway Concentrator<br>Chirpstack Network Server                                                                                                                                                      |
| Power             | 24v DC ONLY<br>0°C to 50°C                                                                                                                                                                                             |
| Dimensions        | 215 x 90 x 80mm                                                                                                                                                                                                        |
| Weight            | <500g                                                                                                                                                                                                                  |

## Interfaces

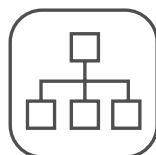
-  **N4** Powered by Niagara 4  
Official Tridium Portability Device
-  **Integrated IO - 24 Points**  
6x UI / 4x DI / 4x DO / 8x AO
-  **2 x RS485 Ports**  
1 x RS485 eBMSIO Port
-  **1 x RS232 Port**
-  **Ethernet 1 (10 / 100 Mbps)**  
**Ethernet 2 (10 / 100 / 1000 Mbps)**
-  **Tyrrell Analytics Ready**

## Connectors

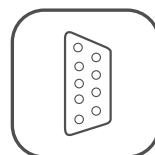
-  **2x RJ45: Ethernet (Independent Addressing)**
-  **1x RS232 Terminal Connector**
-  **2x RS485 Terminal (3 Pin)**
-  **1x RS485 eBMSIO Connector**
-  **24v DC**
-  **Integrated LoRa Concentrator**
-  **Onboard LoRa Network Server**



Cellular



2x Ethernet



RS485 / RS232



I / O



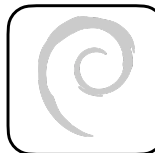
Niagara 4



DIN Rail



High Capacity



Debian 11



Future Proof



LoRaWAN