IONA-I Niagara 4 Controller Intel - LoRa











Specification

Comms 2x Ethernet 2x RS485

1x RS485 eBMSIO

1x RS232

I/O 6x Universal Inputs

(0-10v / 4-20mA / NTC / Monitor / DI / Pulse)

6x Digital Inputs (DI / Pulse Count)

4x Digital Output

(Max 5A / 230v)

8x Analogue Output

(0-10v / 20mA Max / No Relay Support)

IO Points Consume 1x Global Point License

LoRa Integrated LoRa Gateway Concentrator

Onboard Network Server

Power 24v DC ONLY

0°C to 50°C

Dimensions 215 x 90 x 80mm

Weight <500g

Description:

- IONA-I Niagara 4 Controller 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 30 seconds
- Niagara 4.10 & N4.13
- 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 Q7 Intel Atom x6211E Elkhart Lake (2 x 1.3 GHz, 1.5MB L2 cache, 6W)

4GB DDR3L RAM 28GB eMMC Storage

OS Debian 11

Niagara 4 Distribution N.4.10.7

(Long Term Maintenance Release)

Distribution N4.13.2

100 / 250 / 500 / 1,250 / 5,000 / 10,000 Global Capacity Points

12 Months Software Maintenance

LoRa Integrated Gateway Concentrator

Onboard Network Server Frequency 868 MHz Dedicated Niagara 4 Driver

Bodioatod Magara + Bilvoi

Performance Power on to Platform Access: 25s

Power on to Station Access: 30s



Interfaces



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)



Cellular Modem - 4G Ready



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



1/0



Niagara 4



DIN Rail



High Capacity



Debian 11



Future Proof



LoRaWAN