eBMS IoT Controller - ARM

eBMS IOT Controller / ARM800C







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)

Aux 24v DC Output

(Only available when AC supply used)

IO Points Consume 1x Global Point License

Cellular Quectel EG25-G (Cat 4)

Worldwide LTE

Power 24v DC ONLY

Temperature 0 to 50°C

Dimensions 215 x 90 x 80mm

Weight <500g

Description:

- eBMS / IoT Controller (ARM) 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.
- · Power on to Station Running in as little as 150 seconds
- Niagara 4.10 for full control & integrated BMS functionality
- Integrated IO (6 UI / 6 DI / 4 DO / 8 AO)
- 2x Ethernet, 2x RS485, 1x RS485 eBMISO & 1x RS232
- · Option Integrated Cellular 4G Modem
- Up to 2x faster than existing Niagara based controllers

Tech Specs Q7 NXP A9 800 MHz Quad Core

4 x 800 MHz, 1MB L2 Cache 1GB DDR3L RAM 4GB eMMC Storage

(1.3GB Free Space)

OS Debian 11

Niagara 4 Niagara 4.10.7

(Long Term Support Release)

Niagara 4.13.2

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

12 Months Software Maintenance

Performance Power on to Platform Access: 45s

Power on to Station Access: 150s



Interfaces



Powered by Niagara 4 Official Tridium Portability Device



Integrated IO - 24 Points 6x UI / 4x DI / 4x DO / 8x AO



3 x RS485 Ports



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 Edge Connector (For eBMS IO)



24v DC



Full Size SIM Socket



2x SMA Female Connectors



Cellular



2x Ethernet



RS485 / RS232



1/0



Niagara 4



DIN Rail



High Capacity



Debian 11



Future Proof



Tyrrell Analytics