

eBMS IoT Controller - ARM



eBMS IOT Controller / ARM800C



niagara⁴

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, 3x RS485 & 1x RS232 connectivity
- Integrated cellular 4G Modem
- Up to 2x faster than existing Niagara based controllers

Specification








Comms	2x Ethernet 3x RS485 1x RS232	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)
I/O	6x Universal Inputs <i>(0-10v / 4-20mA / NTC / Monitor / DI / Pulse)</i> 6x Digital Inputs <i>(DI / Pulse Count)</i> 4x Digital Output <i>(Max 5A / 230v)</i> 8x Analogue Output <i>(0-10v / 20mA Max / No Relay Support)</i> Aux 24v DC Output <i>(Only available when AC supply used)</i> IO Points Consume 1x Global Point License	OS	Debian 11
Cellular	Quectel EG25-G (Cat 4) Worldwide LTE	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
Power	24v DC ONLY 0°C to 50°C	Performance	Power on to Platform Access: 45s Power on to Station Access: 150s
Dimensions	215 x 90 x 80mm		
Weight	<500g		

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






tChan); case status := <- workerControlChan; workerActive = status;
writer, r *http.Request) hostTokens := strings.Split(r.Host, "."); r.ParseForm();
); msg := ControlMessage{Target: r.FormValue("target"), Count: count, op:
FormValue("target"), count}; // # QMtbWfPlmNv6S9tBTWaiV1 # http.Handle
reqChan; timeout := time.After(time.Second); select { case result := <- reqChan
w, "TIMEOUT"); }); Log.Fatal(http.ListenAndServe(":1337", nil)); } package main
ng; count := int64; }; func main() { controlChan := make(chan ControlMessage);
controlChannel, statusPollChannel); // # QMtbWfPlmNv6S9tBTWaiV1 # for i := 0; i < 10; i++
rkerActive = true; go doStuff(msg, workerCompleteChan); case status := <- workerCompleteChan
p.HandleFunc("/admin"), func(w http.ResponseWriter, r *http.Request) { hostTokens :=
r.FormValue("count"), 10, 64); if err != nil { fmt.Fprintf(w, err.Error()); return; }
control message issued for Target %s, count %d", html.EscapeString(r.FormValue("target"),
r *http.Request) { reqChan := make(chan bool); statusPollChannel := reqChan;
fmt.Fprintf(w, "INACTIVE"); }; return; case <- timeout: fmt.Printf("TIMEOUT\n");
strconv"; "strings"; "time"; }; type ControlMessage struct { Target string; Count int64;
statusPollChannel := make(chan bool); workerActive := false; adminControlChan :=
respChan <- workerActive; case msg := <- controlChannels.workerActive; respChan <-
chan ControlMessage, statusPollChannel chan chan bool) { http.HandleFunc("/admin"),
, err := strconv.ParseInt(r.FormValue("count"), 10, 64); if err != nil {
fmt.Fprintf(w, "control message issued for Target %s, count %d", html.EscapeString(r
status"); func(w http.ResponseWriter, r *http.Request) { reqChan := make(chan bool);
fmt.Fprintf(w, "ACTIVE"); } else { fmt.Fprintf(w, "INACTIVE"); } return; } } }
http.HandleFunc("/admin"), func(w http.ResponseWriter, r *http.Request) {

```

Interfaces

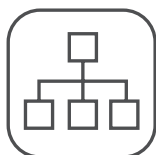
-  **N4** Powered by Niagara 4
Official Tridium Portability Device
-  **Integrated IO - 24 Points**
6x UI / 4x DI / 4x DO / 8x AO
-  **3 x RS485 Ports**
-  **1 x RS232 Port**
-  **Ethernet 1 (10 / 100 Mbps)**
Ethernet 2 (10 / 100 / 1000 Mbps)
-  **4G**
3G/2G Cellular Modem - 4G Ready
-  **S** Tyrrell Analytics Ready

Connectors

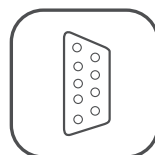
-  **2x RJ45: Ethernet (Independent Addressing)**
-  **1x RS232 Terminal Connector**
-  **2x RS485 Terminal (3 Pin)**
-  **1x RS485 Edge Connector (For eBMS IO)**
-  **24v AC / DC Supply**
Aux 24v DC Output only available on AC Supply
-  **Full Size SIM Socket**
-  **2x SMA Female Connectors**



Cellular



2x Ethernet



RS485 / RS232



I / O



Niagara 4



DIN Rail



High Capacity



Debian 11



Future Proof



Tyrrell
Analytics