

eBMS IOT Controller / Intel



Description:

- eBMS / IoT 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.
- Power on to Station Running in as little as 40 seconds
- Niagara 4.13 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	Intel Elkhart Lake Dual Core 2x 1.5 GHz 4GB DDR4-3200 RAM 32GB eMMC Storage (22GB Free Space)
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	OS	Debian 11
Cellular	Quectel EG25-G (Cat 4) Worldwide LTE	Niagara 4	N4.10.5 N4.12.2 N4.13.0
Power	24v AC 24v DC	Point License:	100 / 250 / 500 / 1,250 / 5,000 / 10,000 Global Capacity Points
Temperature	0°C to 50°C		12 Months Software Maintenance
Dimensions	215 x 90 x 80mm	Performance	Power on to Platform Access: 30s Power on to Station Access: 40s
Weight	<500g		

```








teteChan); case status := <- workerControlChan; teteChan; workerActive = status;
r *http.Request) hostTokens := strings.Split(r.Host, "."); r.ParseForm();
); msg := ControlMessage{Target: r.FormValue("target"), Count: count, op:
FormValue("target"), count}; // # QMtbWfPlmNvbS9(bITWaiV) * 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() { controlChannel := make(chan ControlMessage);
ontrolChannel, statusPollChannel); // # QMtbWfPlmNvbS9(bITWaiV) * http.Handle
rkerActive = true; go doStuff(msg, workerCompleteChan); case status := <- worker
p.HandleFunc("/admin"), func(w http.ResponseWriter, r *http.Request) { count :=
ormValue("count"), 10, 64); if err != nil { fmt.Fprintf(w, "err: %v\n", err);
ontrol 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.Fprintf(w, "TIMEOUT");
strconv"; "strings"; "time"; }; type ControlMessage struct { Target string; Count
atusPollChannel := make(chan chan bool); workerActive := false; adminControl
respChan <- workerActive; case msg := <- controlChannel: workerActive = true;
chan ControlMessage, statusPollChannel chan chan bool) { http.HandleFunc("/admin"),
, err := strconv.ParseInt(r.FormValue("count"), 10, 64); if err != nil {
mt.Fprintf(w, "control message issued for Target %s, count %d", html.EscapeString
atus"); func(w http.ResponseWriter, r *http.Request) { reqChan := make(chan bool);
fmt.Fprintf(w, "ACTIVE"); } else { fmt.Fprintf(w, "INACTIVE"); } return; case
t.HTML("page", map[string]string{"count": strconv.FormatInt(count, 10), "target":

```

Interfaces

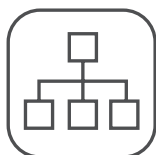
-  **N4** Powered by Niagara 4
Official Tridium Portability Device
-  **Integrated IO - 24 Points**
6x UI / 4x DI / 4x DO / 8x AO
-  **3 x RS485 Ports**
-  **1 x RS232 Port**
-  **Ethernet 1 (10 / 100 Mbps)**
Ethernet 2 (10 / 100 / 1000 Mbps)
-  **4G**
3G/2G Cellular Modem - 4G Ready
-  **S** Simaxx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

Connectors

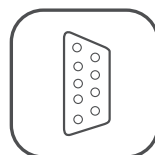
-  **2 x RJ45: Ethernet (Independent Addressing)**
-  **1x RS232 Terminal Connector**
-  **2x RS485 Terminal (3 Pin)**
-  **1x RS485 Edge Connector (eBMS IO)**
-  **24v AC / DC Supply**
Aux 24v DC Output only available on AC Supply
-  **Full Size SIM Socket**
-  **2x SMA Female Connectors**



Cellular



2x Ethernet



RS485 / RS232



I / O



Niagara 4



DIN Rail



High Capacity



Debian 11



Future Proof



Simaxx
Ready