BACnet Master

BACnet Master to EtherNet/IP and Modbus

BACnet Protocols
- *MS/TP*
- *Ethernet*
- *BACnet/IP*

BACnet Devices
- *50 - A-BNM-B*
- *250 - A-BNM-P*
- *250 - A-BNM-M*

BACnet Data Points
- *200 - A-BNM-B*
- *1000 - A-BNM-P*
- *2500 - A-BNM-M*

BACnet Device Discovery

BACnet Object Discovery

Auto-Configuration

EtherNet/IP Originator

EtherNet/IP Target

Logix Direct-to-Tag

Modbus -TCP , RTU

Device Level Ring

DIN Rail Mount

Easy to configure

The A-BNM is a series of BACnet Master modules used to integrate BACnet devices with EtherNet/IP and Modbus controllers.

A total of 250 BACnet devices is supported on either MS/TP (485), Ethernet or BACnet/IP, or any combination of these.

The module is available in 3 variants to scale to required number of BACnet data points: 200, 1000 or 2500.

The A-BNM supports all the standard BACnet objects, (AI, AV, AO, BI, BV, BO, GR, MSI, MSO) and supports CoV (Change of Value) subscriptions which drastically reduces network bandwidth utilization.

Using the free downloadable Aparian Slate utility, BACnet devices and their available objects can be discovered and auto-configured.

The module can operate in one of four Primary Interface modes:

EtherNet/IP Target - In this mode, a remote EtherNet/IP device (e.g. a Logix controller) establishes between 1 and 25 Class 1 connections to the module. BACnet device status and data can be mapped into these input and output cyclic connections and exchanged with the controller at the configured requested packet interval (RPI).

EtherNet/IP Originator - As an EtherNet/IP originator, the module can initiate explicit EtherNet/IP messaging, including Logix Direct-To-Tag operations as well as establishing class 1 connections with other EtherNet/IP devices.

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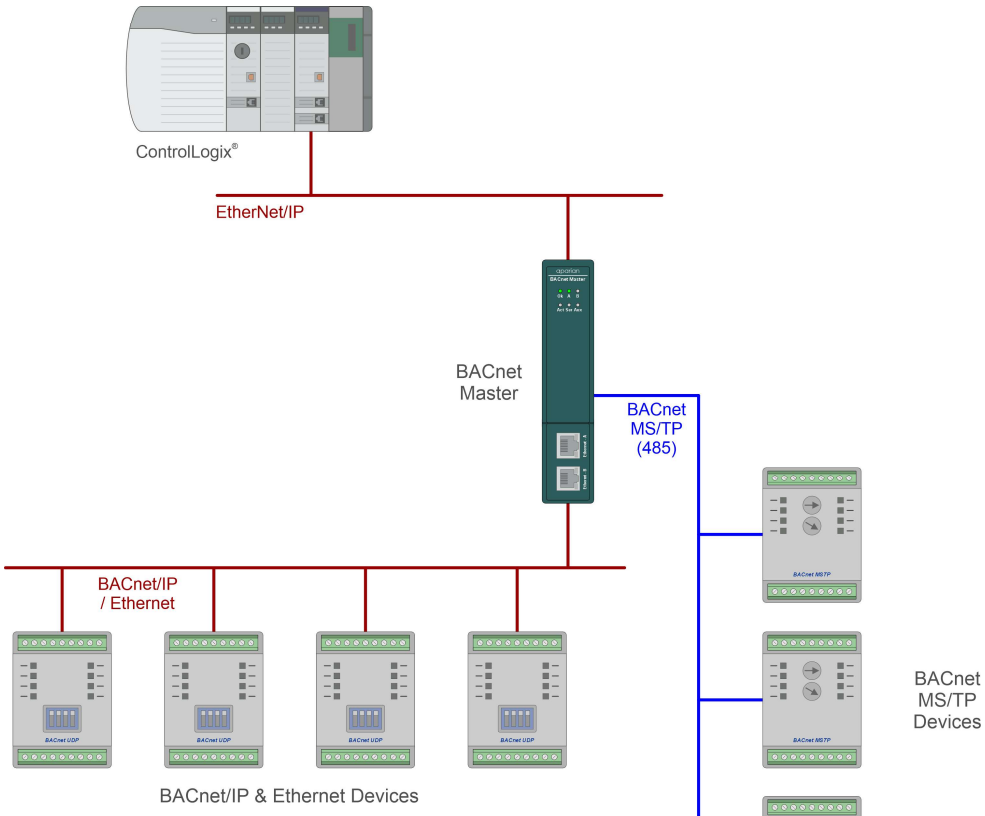
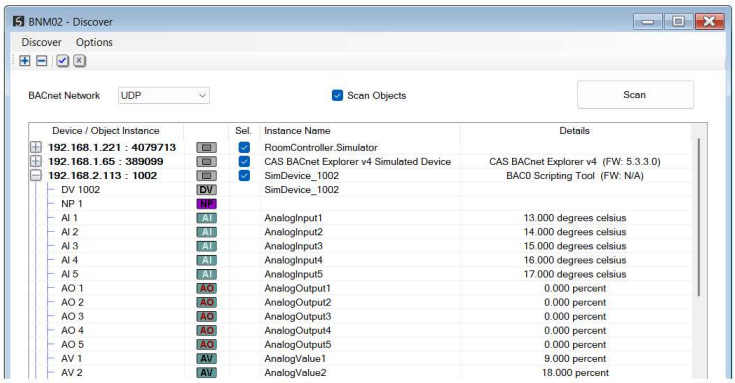
Modbus Server – As a Modbus TCP Server, BACnet device status and point data can be exchanged with a remote Modbus client.

Modbus Client - As a Modbus TCP client, the module uses a configured Auxiliary Map to exchange the BACnet device status and point data with one or more remote Modbus servers.





Specifications

Parameter	Rating
Power requirements	10 - 32 VDC (120mA @ 24VDC) 3.0W Max.
Operating temperature	-20 - 70 °C
BACnet Data Points	200, 1000, 2500 (A-BNM-B, A-BNM-P, A-BNM-M)
BACnet Devices	50, 250, 250 (A-BNM-B, A-BNM-P, A-BNM-M)
BACnet Protocols	MS/TP (485), BACnet/IP, Ethernet
Ethernet	10/100 Mbps, Full/Half Duplex, Auto-MIDX, DLR
EtherNet/IP Target	1-25 x Class 1 Connections
EtherNet/IP Originator	10 x Class 1, 10 x Devices (UCMM/Class 3) 50 map items (total)
Modbus Protocol	Modbus TCP, RTU (232/485) (Server or Client)

EtherNet/IP™

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CL 1 DIV 2 GRP A,B,C,D
E494895

BACnet Master

A-BNM-B
A-BNM-P
A-BNM-M

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