

# Babel Buster 3

MODEL MX-73-V3  
NETWORK GATEWAY



CONTROL SOLUTIONS MINNESOTA

## BACnet IP to MS/TP Router plus SNMP v3 Gateway

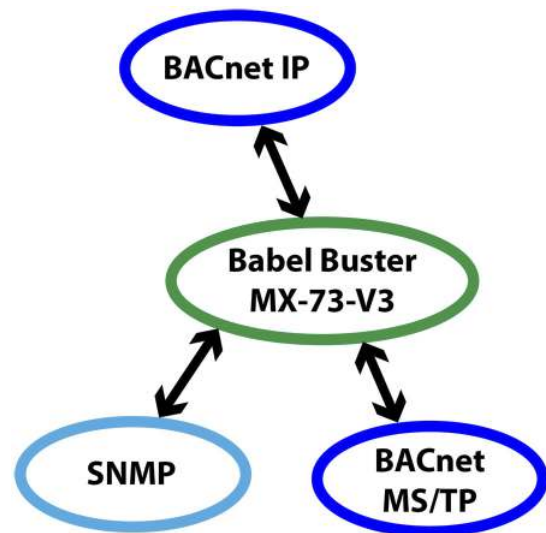


*Control Solutions' Babel Buster MX-73-V3* is a BACnet router, slave proxy, and client/server gateway that allows remapping objects from multiple slaves into one master. You can use the MX-73-V3 as just a router, just a slave proxy, just a client/server, or all three at the same time. The MX-73-V3 also includes BBMD support. The MX-73-V3 is a performance upgrade of Control Solutions' original BB2-7030 BACnet router.

The MX-73-V3 as a BACnet Router will route IP to MS/TP and vice versa via its local ports, and supports full router capability for multi-hop internetworks including via NAT WAN routers. Routing is simple to set up. Routing can be used without any other gateway features enabled.

The MX-73-V3 as a BACnet Client/Server Gateway will poll BACnet IP and/or BACnet MS/TP slaves or servers, and retain copies of selected object properties. Upstream clients may then query the MX-73-V3 to receive data originating from multiple devices.

The MX-73-V3 is an SNMP Agent. Local BACnet objects can be assigned to either of the branches of the local MIB for remote access by SNMP Managers. The local data may be accessed as scaled integer or 32-bit floating point (RFC 6340). An SNMP Get to the MX-73-V3 will read local objects and an SNMP Set will write the local objects. If local objects are mapped via the BACnet client to write to other BACnet devices, then SNMP Set will result in writing to a BACnet device. The MX-73-V3 can also send traps or notifications based on threshold rules created via templates in the MX-73-V3's web UI.



### *Babel Buster BB3-7302 Object Summary*

- Analog Input, Analog Output, Analog Value
- Binary Input, Binary Output, Binary Value
- Multi-State Input, Output, Value
  
- Up to 1,000 MIB Variables
  
- Objects from pool can be assigned to any of above types
- Maximum of 1024 states for multi-state, includes state text (actual value supported varies by resource usage per object)

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## Built-In Secure Web Server for Configuration and Diagnostics



## FEATURES

- BACnet IP to MS/TP Router
- Slave proxy to support MS/TP slave-only devices
- Client/Server gateway for remapping BACnet objects
- Read/Write any standard BACnet objects as a Gateway
  - Up to 5,000 objects
  - Analog, Binary, Multi-State object types
  - Input, Output, Value objects
- BBMD, COV support
- SNMP v1, v2c, v3 Get/Set access to all data points
- SNMP v1, v2c, v3 trap generation, user programmable criteria
- MD5/DES support for Get/Set, encrypted traps not supported
- Up to 1,000 MIB variables
- Direct import of CSV files for faster point mapping
- Commandable BACnet objects implement priority array
- Hardened EIA-485 transceiver for BACnet MS/TP
- 10/100BaseT Ethernet for BACnet IP and SNMP
- Includes "10X" file capacity
- Powered by 10-30VDC or 24VAC 50/60 Hz
- Power Consumption: 0.1A @ 24VDC
- Panel mount, 70mm H x 131mm W x 38mm D
- Pluggable screw terminal block for power & RTU network
- Operating temperature -20°C to +75°C
- Humidity 5% to 90% non-condensing
- FCC Class A, CE Mark

### BACnet Protocol Implementation Conformance Statement (Abbreviated)

Date: 29 September 2021

Vendor Name: Control Solutions, Inc.

Product Name: Babel Buster Product Model Number: MX-73-V3

Applications Software Version: 3.16.6 Firmware Revision: 3.16.6

Product Description: BACnet IP to MS/TP Router with SNMPv3 Gateway

### BACnet Standardized Device Profile (Annex L):

- ▶ BACnet Application Specific Controller (B-ASC)
- ▶ BACnet Gateway (B-GW)
- ▶ BACnet Router (B-RTR)

### List all BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-A, DS-RP-B, DS-RPM-B, DS-WP-A, DS-WP-B, DS-WPM-B, DS-COV-B,  
DS-COVU-B, DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B,  
DM-R-B, GW-EO-B, DM-SP-B, NM-RC-B, NM-BBMD-C-B, NM-FDR-A

Segmentation Capability: Request & response, window size 8

### Standard Object Types Supported:

Object types: AI, AO, AV, BI, BO, BV, MSI, MSO, MSV, DEV (all static)

See additional documentation for optional & proprietary properties.

### Data Link Layer Options:

- ▶ BACnet IP (Annex J)
- ▶ BACnet MS/TP master & slave (9600, 19200, 38400, 76800 baud)

### Device Address Binding:

Is static device binding supported? Yes

### Networking Options: ▶ Router, Clause 6, BACnet IP-MS/TP

- ▶ Annex H.1, Mapping Non-BACnet Networks onto BACnet Routers
- ▶ BACnet IP Broadcast Management Device (BBMD)  
(Support registrations by Foreign Device: Yes)

Character Sets Supported: ANSI X3.4

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:  
SNMP

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