



## *Babel Buster 4 - The Next Generation*

***Babel Buster® 4 has one goal:  
To become the only gateway you  
will ever need.***

- Dual Ethernet Ports
- Dual, Isolated RS-485 Ports
- Faster, More Memory
- Secure, SSL Support
- SNMPv3 Support
- RADIUS authentication support
- Modbus TCP Client and Server
- Dual Modbus RTU Master or Slave
- SNMP Agent
- SNMP Client/Manager
- SNMP Trap Send and Receive
- USB Flash Drive
- Slim DIN Rail Package
- Built-in Configuration Tools
- Customizable User Interface
- Drivers Included
- Free Software Upgrades for Life

The new Babel Buster® 4 is a performance enhanced multi-protocol network gateway designed to serve many network gateway needs in a single package. The BB4-8422 includes dual Ethernet ports and dual isolated RS-485 ports. This new generation gateway features a faster processor, greatly increased memory capacity, and network security support. The user may assign any supported protocol to any port.

The Babel Buster 4 brings together all of the best features of our most popular Babel Buster 2 family gateways plus everything else you asked for along the way. By incorporating a full implementation of Linux, we leave the door wide open to adaptation to an endless array of protocols, applications, and features.

Protocol support in initial release includes Modbus and SNMPv3, with BACnet soon to follow. There is only one model - you just keep adding protocols as they become available. There is no added charge for adding an open protocol.

The web pages served by the internal web server have been overhauled to be mobile responsive and dynamically updated. That means you can easily view data and configuration from your smart phone if you have made the Babel Buster accessible via secure Internet connection.

# Babel Buster 4



The SNMP Agent included in the BB4-8422 provides MIB access to internal data objects with representation as 32-bit or 64-bit integer, four different options for floating point support, and character strings. The SNMP Agent can send Traps or Informs as SNMPv3, SNMPv2, or SNMPv1. Sending of traps is triggered by thresholds set by the user. Trap rules are created using a simple template in the Web UI.

The SNMP Trap Receiver can be configured to receive SNMP Traps as v1, v2, or v3. Trap rule templates tell the trap receiver what Trap OIDs to look for, what Var OIDs to pick out, and what local data object to place the results in.

The SNMP Client includes automatic reading and writing of MIB variables in other SNMP devices using rules created by the user and set up using templates in the Web UI. Writing can be periodic, or triggered by change in value in the local object.

The SNMP Client includes an automatic table walker with multiple algorithms making it suitable for walking the sparse alarm table found in UPS systems implementing RFC 1628. The table walker can easily translate the alarm table into a series of data objects.

The BB4-8422 can function as a Modbus TCP Server or Modbus RTU Slave. All of the data objects created within the BB4-8422 can be made available as Modbus registers to other Modbus masters. The user is free to select which local data objects are accessible as Modbus registers, and the remapping feature allows the user to assign any arbitrary Modbus register map they might like.

The BB4-8422 can function as a Modbus TCP Client or Modbus RTU Master. The BB4-8422 has two isolated RS-485 ports that operate independently, each configurable as Modbus RTU Master or Slave. Both Ethernet ports can be used by the Modbus TCP Client, allowing access to Modbus devices on two different subnets.

The Modbus Client or Master will periodically poll registers in other Modbus devices, saving a copy of the content in local objects. Registers in other Modbus devices can be written periodically, or triggered by change in value in the local object. All Modbus register types are supported (coil, discrete input, input register, holding register). Data can span multiple Modbus registers to provide 32-bit or 64-bit data, integer or floating point. Data can span multiple registers for character string representation as well.

Data is shared across all protocols with protocol agnostic data objects at the core of the system. Modbus devices can be accessed by SNMP. SNMP data can be accessed by Modbus. Data flow can go in both directions between any given protocols.

## FEATURES

- One Gateway, Multiple Protocols, IoT Ready
- Secure, SSL Support
- SNMPv3 Support (and v1, v2)
- Built-in Configuration Tools
- Drivers Included
- Free Software Upgrades for Life
- Support for up to 10,000 data objects
- Modbus TCP and RTU client and server
- Modbus support for 32-bit and 64-bit data
- Modbus support for character string data
- SNMP client and server
- SNMP Get/Set access to all data points
- SNMP table walker, trap send and receive
- Configure via secure web pages
- Field upgradeable software upload via USB drive
- RADIUS authentication support
- Customizable User Interface
- AM3359 Cortex-A8 Processor, 720MHz
- 512MB DDR3 RAM
- 512MB Nand-Flash, Boot/System
- 2GB Nand-Flash, Applications
- Embedded Linux OS
- Apache 2.4, PHP 7, Sqlite 3, Python 2.7, Perl 5, GCC 6.3 Included
- USB Host for software updates or user applications
- Dual 10/100 Ethernet Ports
- Dual Isolated RS-485 Ports, 1200 to 115200 baud
- Powered by 10-30VDC or 12-24VAC 50/60 Hz
- Power Consumption: 0.3A @ 24VDC
- DIN rail mounting, 115mm H x 32mm W x 100mm D
- Wall mount bracket included
- Pluggable screw terminal blocks for power, RS-485 ports
- Operating temperature -30°C to +70°C; Humidity 5% to 90%
- FCC Class A, CE Mark

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