

# Modbus Router/B

## Release Notes

A-MBR/B

Document No. D106-022

Document Revision 1.0

01/2024

Firmware Revision 2.001.013

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# 1. PREFACE

## 1.1. COMPATIBILITY

Firmware revision 2.001.013 of the Modbus Router will require the following compatible versions:

Software	Version
Slate	1.074 and later

## 1.2. NOTES

The following should be noted:

- Firmware upgrades will be done using Aparian's Slate software.
- Aparian flash files have an *.afb* extension.
- Slate can also be used to set the initial network parameters using its DHCP server.
- Should any interruptions cause the module to not complete the firmware upgrade the module will return to Safe Mode. The user can then re-flash the module with the application firmware. See the user manual for more information regarding Safe Mode.

## 1.3. ADDITIONAL INFORMATION

The following resources contain additional information that can assist the user with the module installation and operation.

Resource	Link
Slate Installation	<a href="http://www.aparian.com/software/slate">http://www.aparian.com/software/slate</a>
Modbus Router User Manual Modbus Router Datasheet Example Code & UDTs	<a href="http://www.aparian.com/products/modbusrouterb">http://www.aparian.com/products/modbusrouterb</a>
Ethernet wiring standard	<a href="http://www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html">www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html</a>
CIP Routing	The CIP Networks Library, Volume 1, Appendix C:Data Management
Modbus	<a href="http://www.modbus.org">http://www.modbus.org</a>

## 1.4. SUPPORT

Technical support will be provided via the Web (in the form of user manuals, FAQ, datasheets etc.) to assist with installation, operation, and diagnostics.

For additional support the user can use either of the following:

Contact Us web link	<a href="http://www.aparian.com/contact-us">www.aparian.com/contact-us</a>
Support email	<a href="mailto:support@aparian.com">support@aparian.com</a>

## 2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
2.001.013	None	-
2.001.012	DHCP Address Assign	Updated method to assign a Static IP Address using the DHCP Server Tool in Slate.
	LED Flash Discovery	Ability to discover the module by using the LED Flash function.
	Ethernet Split Port	Added Ethernet split port option to the configuration that will block routing between the two Ethernet ports. This mode will also support dual IP addresses specific to each Ethernet port.
	Modbus TCP Default Gateway	Added off-subnet communication for Modbus TCP when operating as a Client.
2.001.010	New Modes	Added Enhanced, Bridge, and Concentrator modes.
	Security	Added module security with encryption and authentication.
	EIP Originator	Added support for operating as an EtherNet/IP originator.
	All ports	Support Modbus communication on all ports simultaneously.
	EIP Target	Support up to 5 x Class 1 EtherNet/IP connections when operating as an EtherNet/IP Target.
2.001.009	General	Non-application specific update.
2.001.008	CPU Support	Minor enhancements for series B of the CPU.
2.001.007	CPU Support	Added support for series B of the CPU currently being used.
2.001.006	Ground Connection	Add parameter to config allowing the user to connect the ground when required for DH485 networks.
2.001.005	ODVA	Updates for required for ODVA certification
	USB	Updates to allow USB to pass through CIP messages
2.001.002	Modbus TCP	When in scheduled mode, faster recovery of Modbus Slave when connection was lost.

### 3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
2.001.013	Modbus TCP	Fixed anomaly that would delay Modbus TCP Client communication startup.
2.001.011	USB Startup	Fixed anomaly where USB communication would not start if the module was powered up with USB communication configured.
2.001.002	Modbus TCP Map Item Count	Increased the Modbus TCP client count to 100 from 40.

### 4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
2.001.013	None	-