Modbus Router/B Release Notes

A-MBR/B

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Firmware Revision 2.001.016

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 2.001.016 of the Modbus Router will require the following compatible versions:

Software	Version
Slate	1.087 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	http://www.aparian.com/software/slate
Modbus Router User Manual	
Modbus Router Datasheet	http://www.aparian.com/products/modbusrouterb
Example Code & UDTs	
Fth are at wining atom doud	www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205 220 420/installati
Ethernet wiring standard	on/guide/cde205 220 420 hig/Connectors.html
CIP Routing	The CIP Networks Library, Volume 1, Appendix C:Data Management
Modbus	http://www.modbus.org

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	www.aparian.com/contact-us
Support email	support@aparian.com

2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
2.001.016	Modbus Comms	Added option to suspend Modbus Comms (in enhanced mode) when EIP communication fails (EIP Target or EIP
		Originator).
2.001.015	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	Added off-subnet communication for Modbus TCP when
	Gateway	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
2.001.016	None	-
2.001.015	EIP Originator Class 1	Fixed issue which would not allow connections with 16-bit
	Connection Instance	connection instances.
2.001.014	Mapping	Fixed issue which could cause a faulty startup when EIP
		Originator or Modbus Client has been configured without any
		mapping items.
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	Increased the Modbus TCP client count to 100 from 40.
	Item Count	

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
2.001.016	None	-