DH485 Router/B

Release Notes

A-DH485R/B

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Firmware Revision 2.001.015

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 2.001.015 of the DH485 Router will require the following compatible versions:

Software	Version
Slate	1.092 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	https://www.aparian.com/software/slate
DH485 Router/B User Manual DH485 Router/B Datasheet Application Notes Example Code & UDTs	https://www.aparian.com/products/dh485routerb
Ethernet wiring standard	www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html
CIP Routing	The CIP Networks Library, Volume 1, Appendix C:Data Management
Map PLC/SLC messages	SLC to CompactLogix Migration Guide: Chapter 3 – Map PLC/SLC Messages (1769-ap001_-en-p.pdf) EtherNet/IP Network Configuration: Chapter 5 – Mapping Tags (enet-um001_-en-p.pdf)

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
2.001.015	PCCC	Added PCCC Server statistics. PCCC Client closure also linked to TCP connection.
2.001.014	SD Card	Added support for SD Card backup for disaster recovery.
	Powerup	Improved resilience when powering up with inconsistent power feed.
2.001.013	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.
2.001.012	General	Non-application specific update.
2.001.011	PCCC Buffer	Increase PCCC message buffer to process up to 60 simultaneous requests.
2.001.010	RS232 support	Added support for DH485 protocol on RS232
	3 x PCCC IP Addresses	The module now supports up to three PCCC IP addresses each with DH485 node, allowing FTView to connect to a max of three SLCs when communicating on RS485.
2.001.009	CPU Support	Minor enhancements for series B of the CPU.
2.001.008	CPU Support	Added support for series B of the CPU currently being used.
2.001.007	TCP Robustness	Improved TCP connection robustness when operating over an intermittent Ethernet connection.
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

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
2.001.015	None	-
2.001.014	None	-
2.001.013	AIC Mode LEDs	Fixed incorrect LED flashing in AIC mode.
2.001.011	PCCC Multipacket	Fixed anomaly where the module would not process the TCP messages with multiple PCCC request correctly.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
2.001.015	None	-
2.001.014	None	-