

# HDLC Router

## Release Notes

A-HDLC

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Firmware Revision 1.008

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# 1. PREFACE

## 1.1. COMPATIBILITY

Firmware revision 1.008 of the HDLC Router will require the following compatible versions:

Software	Version
Slate	1.035 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>
HDLC Router User Manual HDLC Router Datasheet Example Code & UDTs	<a href="http://www.aparian.com/products/hdlcrouter">http://www.aparian.com/products/hdlcrouter</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

## 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
1.008	Modbus TCP	Add support for Modbus TCP
1.007	4-wire HD communication	Add support for 4-wire multidrop in Slave mode
	Slave reinitialized	When a U-frame disconnected is received the HDLC slave is reinitialized for communication.
1.006	Response Timeout	Added ability for the user to configure the response timeout when in Master mode.
	Repeat Packet	Added ability for the user to enable/disable the auto packet repeat when there has been a response timeout.
1.005	Interface Mode	Added support for Broadcast with response and Broadcast with no response interface modes.
1.004	Factory Default	Updated configuration clear when doing factory defaults
	EtherNet/IP	Updates required for ODVA conformance
1.003	Stability	Improvements to 2-wire communication stability.
1.002	Stability	Improvements to 180kps communication stability.

## 3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.008	None	-

1.006	CRC failure	Fixed anomaly which under certain circumstances, when receiving a CRC failed packet in Master mode, could cause a failure in the HDLC communication.
1.004	Ethernet Power Down	Updated method of Ethernet Phy power down when power is removed.
	DIP Switches	Fix reading of DIP switches are startup

## 4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.008	CRC faults	It has been observed that with certain Starnet communication modules when using a 2 or 4-wire connection, 180kps with FMO encoding the HDLC Router might receive CRC errors at a low frequency. This will not impact any of the communication in the Starnet module.