

# J1939 Router/B

## Release Notes

A-J1939/B

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Firmware Revision 1.001.014

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# 1. PREFACE

## 1.1. COMPATIBILITY

Firmware revision 1.001.014 of the J1939 Router/B will require the following compatible versions:

Software	Version
Slate	1.091 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>
J1939 Router User Manual J1939 Router Datasheet Example Code & UDTs	<a href="https://www.aparian.com/products/j1939Routerb">https://www.aparian.com/products/j1939Routerb</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>
SAE J1939 Standards	<a href="http://www.sae.org/standardsdev/groundvehicle/j1939a.htm">http://www.sae.org/standardsdev/groundvehicle/j1939a.htm</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
1.001.014	RS232 and RS485 Statistics	Create separate serial statistics for RS232 and RS485.
	SD Card	Added SD Card backup support for firmware, configuration, and network parameters.
1.001.013	Baud Rate	Added support for the 125k CAN Baud Rate.
1.001.012	PGN Acyclic Trigger	The module now supports triggering the PGNs from Logix or Modbus allowing for acyclic sending of PGNs.
	Device Name Mapping	The J1939 Device Name can now be mapped to the Logix controller or Modbus Register.
	J1939 PGN Stats Mapping	The J1939 PGN Statistics can now be mapped to the Logix controller or Modbus Register.
	J1939 PGN Stats Clearing	Slate can now clear the PGN mapping statistics for each PGN.
1.001.011	None	-
1.001.010	None	-
1.001.009	LED Flash Discovery	Ability to discover the module by using the LED Flash function.
	DHCP Address Assign	Updated method to assign a Static IP Address using the DHCP Server Tool in Slate.
1.001.008	Dynamic CAN Baud	Added ability to dynamically set the CAN Baud rate.
	Baud Rate Indication	In the status form of Slate and system bits of the Logix input assembly, show the current configured Baud Rate.
1.001.006	Raw CAN Id Request	Added 11-bit Raw CAN Id Request
1.001.005	J1939 Read/Write Requests	Added new acyclic J1939 PGN Read/Write requests. Added new acyclic Raw CAN Id requests.
1.001.003	Duplicate Node Detection Disable	Added option to disable Duplicate Node Detection.
	PGN Produce/Consume	The same PGN can now be used to produce data as well as consume data.

### 3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.014	EIP Originator Connection Instance	Fixed anomaly where the incorrect Connection Instance number was used for Connection Instances that are 16-bit.
	Modbus Client Default Gateway	Fixed issue that would cause communication issues with multiple Modbus TCP Servers on a different subnet when using a Default Gateway.
	DHCP Domain Server	Fixed anomaly where a DHCP Server providing a single Domain Server IP address could cause the module to crash.
1.001.013	None	-
1.001.012	PGN Stats	The PGN statistics did not display correctly after PGN item 35 in Slate.
	J1939 Name	The J1939 Name configured in the J1939 Router/B, that is sent out by the J1939 Router/B, was sending the name data in the incorrect format.
1.001.011	Explicit Message	Fixed anomaly in the Explicit J1939 / CAN Message that could cause the response to grab the first CAN packet on the network and not the one matching the correct PGN.
1.001.010	EIP Target	Fixed anomaly where the EIP Target connection could persist even when the configuration has changed such that the module is not an EIP target.
1.001.009	Mapping	Fixed issue which could cause a faulty startup when EIP Originator or Modbus Client has been configured without any mapping items.
1.001.005	Read/Write BAM	Fixed issue with acyclic J1939 Read/Write requests when using BAM messages.

### 4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.014	None	-