CANopen Router/B

Release Notes

A-CANOR/B

Document No. D150-009

Document Revision 1.0

08/2024

Firmware Revision 1.001.009

CONTENTS

aparian

1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.001.009 of the CANopen Router/B will require the following compatible versions:

Software	Version
Slate	1.070 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
CANopen Router/B User Manual CANopen Router/B Datasheet Example Code & UDTs	http://www.aparian.com/products/canopenrouterb
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
CANopen Standards	https://www.can-cia.org/canopen/

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
1.001.009	Slave Operational Startup	When module is in Slave mode and set to operational, does not require initialize messages from CANopen Master.
1.001.008	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.
1.001.007	Master Heartbeat	The module (when in Master Mode) can also send out a Heartbeat for devices requiring a CANopen Heartbeat.
	SDO Passthrough	Added an additional SDO passthrough that is 32-bit aligned for Logix.
1.001.004	SDO max mapping	Increased the maximum number of SDO mapping items from 100 to 500.
1.001.003	General	Updates to low level functionality.
1.001.002	No Comms Action	Added functionality to allow the EIP Class 1 IO to go to a pre-determined state (offline or program mode) when CANopen comms was lost as a CANopen Slave.
	Routed EIP Connection	EIP explicit messaging to a routed device (e.g. device in a rack with a Ethernet adapter) will now also indicate offline when it is removed from the rack.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.009	None	-
1.001.008	Mapping	Fixed issue which could cause a faulty startup when EIP Originator or Modbus Client has been configured without any mapping items.
1.001.004	SDO multi-packet writes	Fixed anomaly where the incorrect data was being sent when SDO writes span more than one packet.
1.001.003	EIP Originator Class 1 Config	Fixed anomaly which cause the EIP Class 1 connection config to be zero.
	EIP Originator Class 1 Count	Fixed anomaly that could cause the Class 1 connection count to not clear after a configuration download.
	EIP Originator – Last Forward Open Response	Fixed anomaly where under certain conditions the Last Failed Forward Open Response did not correctly display.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.009	None	-