ControlNet Router

Release Notes

A-CNR

Document No. D138-012

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Firmware Revision 1.001.006

CONTENTS

1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.001.006 of the ControlNet Router will require the following compatible versions:

Software	Version
Slate	1.053 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
ControlNet Router User Manual ControlNet Router Datasheet Example Code & UDTs	http://www.aparian.com/products/controlnetrouter
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
ControlNet	http://www.odva.org
ControlNet Cabling	ControlNet Coax Media Planning and Installation Guide https://literature.rockwellautomation.com/idc/groups/literature/documents/in/cnet-in002_-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
1.001.006	PCCC SLC Support	Added support for PCCC SLC communication.
1.001.003	EtherNet/IP Class 1 Originator	Added support for EtherNet/IP Class 1 origination allowing the ControlNet Router to establish EtherNet/IP Class 1 cyclic connections to target devices.
1.001.002	EtherNet/IP Target Mode	Added ENIP Target mode where the module can be connected with Class 1 over ENIP and CNET to exchange data between controllers.
	EtherNet/IP Map Mode	Added ENIP Map mode where the module can send UCMM or Class 3 messages on Ethernet and copy those to or from the input or output assemblies on ControlNet.

3.   ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.006	None	-
1.001.005	CNet NUT update	Fixed anomaly where under certain conditions the A-CNR would incorrectly update the NUT resulting in the A-CNR refusing the scheduled ControlNet connection.
	EIP Originator Status	Under certain conditions the EIP Class 1 Originator status would be incorrectly displayed in Slate.
1.001.004	Minor fixes	Fixed anomaly with EIP Map mode when using Custom CIP Service.

		Fixed anomaly with EIP Map mode when using Class 3 messaging.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.006	None	-