DeviceNet Router/B

Release Notes

A-DNTR/B

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Firmware Revision 1.001.012

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.001.012 of the DeviceNet Router/B will require the following compatible versions:

Software	Version
Slate	1.095 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
DeviceNet Router/B User Manual DeviceNet Router/B Datasheet Example Code & UDTs	http://www.aparian.com/products/devicenetrouterb
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
DeviceNet	http://www.odva.org
Slate Installation	http://www.aparian.com/software/slate

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
1.001.012	None	-
1.001.011	Modbus Client Triggers	Add trigger options for Modbus Client Writes (cyclic, on-change, and internal IDS trigger)
	EIP Originator Transfer Options	Add Transfer Format options for EIP originator connections.
	Webserver	Remove Webserver to avoid it being used as an attack vector.
1.001.010	RS232 and RS485 Statistics	Create separate serial statistics for RS232 and RS485.
	SD Card	Allow writing Network Parameters to SD Card for disaster recovery.
1.001.009	DeviceNet Poll Ratio	Added parameter to increase the rate at which data is exchanged faster than the packet exchange rate configured.
1.001.006	DeviceNet Stats	Added option to map DeviceNet and CAN statistics into Input Assembly or Modbus Registers using the Internal Mapping.
	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.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.012	DNet Cyclic Communication	Fixed possible issue with DeviceNet Originator connection during startup which could cause the connection to be closed.
	Internal Mapping	Fixed anomaly with Bit to Byte copy function.
	TCP Connection	Update connection closure method for TCP connections.
1.001.011	Year 2038 rollover	Fixed anomaly where the date will rollover in year 2038.
	Modbus Clients	Fixed issue where more than 10 simultaneous Modbus TCP clients could cause timeouts.
	DeviceNet Originator Status	Only report connection is healthy once the first cyclic packet is received from the DeviceNet node.
	EtherNet/IP Communication	Minor bug fixes and stability updates.
1.001.010	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.
1.001.009	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.
1.001.007	Group 3 Message Format	Fixed issue which did not allow for Group 3 messages to have different message formats.
1.001.004	Group 2 Connection	Resolved issue where is Group 2 Connection is already established, would not establish again.
1.001.003	Group 2 Messaging	Resolved issue where incorrect class and instance length was being used for Group 2 Messaging

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.012	None	-