FF Link/B

Release Notes

A-FFL/B

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Firmware Revision 2.001.014

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 2.001.014 of the FF Link 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	https://www.aparian.com/software/slate
FF Link User Manual FF Link Datasheet Example Code & UDTs	https://www.aparian.com/products/ff-link-b
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
Modbus	http://www.modbus.org
FOUNDATION™ Fieldbus	FOUNDATION™ Fieldbus System Engineering Guidelines (AG-181) FOUNDATION™ Fieldbus Technical Overview (FD-043) www.fieldcommgroup.org/technologies/foundation-fieldbus

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
2.001.014	Debug	Added additional debug information for communication status.
2.001.013	Ethernet Flow Control	Disable processing of Ethernet Pause packets.
2.001.012	None	-
2.001.011	None	-
2.001.010	Advanced Status	Added Advanced Status to the FF Master internal mapping.
2.001.008	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.
2.001.007	Data Compel	Added support for DT5 compel.
2.001.006	H1 Data Compel	Support for additional H1 Data Compel response formats. Added configurable priority to H1 Compel requests.
	H1 Async Write	Only write the async parameters on change.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
2.001.014	H1 Comms	Improved resilience for H1 comms when certain devices reply with incorrect or malformed packets.
2.001.013	None	-
2.001.012	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.
	DHCP Broadcast Receive	Fixed anomaly where under certain circumstances, the module will remove the first ARP client when multiple DHCP Discover packets are sent with IP address 0.0.0.0.
2.001.011	AP Directory Object	Fixed anomaly where if more than one block of data existed for the AP Directory Object, only the first block would be read.
2.001.009	PV Establish Connection	Updated PV Connection Establishment to be prioritize over async message exchange.
	Quiet Mode	Block EIP and Modbus communication in Quiet mode.
	PV Exchange Status	When downloading config to the FF Link, clear the exchange bits in the DataExchange Mapping for the previous devices.
2.001.008	Mapping	Fixed issue which could cause a faulty startup when EIP Originator or Modbus Client has been configured without any mapping items.
	PV Connection	Updated PV Connection establishment to have the DLPDU size that matches the download from Slate.
2.001.007	General	Non-specific fix to certain admin objects.
2.001.006	Backup LAS	When FF Link goes into backup LAS state, force H1 Device flags offline.
	H1 Time	Fix format of SM Time Update packet.
2.001.004	Local VCRs	Fixed anomaly where VCRs being sent by the FF Link was not correctly mapped and could cause the VCRs not to send.
2.001.003	Log Startup	Fixed anomaly where on power up the module event log could cause the module to restart.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
2.001.014	None	-