

PA Link/B

Release Notes

A-PAL/B

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Firmware Revision 2.001.012

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 2.001.012 of the PA Link 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	https://www.aparian.com/software/slate
PA Link User Manual PA Link Datasheet Example Code & UDTs	https://www.aparian.com/products/palinkb
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

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
2.001.012	DPV1 Class 2 Info	Added diagnostics to allow user to see the active PROFIBUS PA DPV1 Class 2 connections.
2.001.011	PROFIBUS PA Comms	Improved communication support for non-standard communication signals.
2.001.010	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	General	Non-application specific update.
2.001.005	Wildcard support	Added support for wildcard PA Slave device.
	Modbus TCP Port	Added support for configurable Modbus TCP port.
	Modbus Single Write	Added support for Modbus Single Write when element count is 1.
	Data Zeroing	Added support for zeroing the PA Device data if a device goes offline.
	Modbus Comms Status	Added support for mapping of Modbus Communication Status.
	Byte Swap	Added byte swap options for each PA Slave device.
2.001.004	CPU Support	Added support for series B of the CPU currently being used.
2.001.003	Modbus	Support Modbus TCP Rapid Fire.
	Modbus	Added Modbus packet capture.
2.001.002	EtherNet/IP RPI	Max RPI is set to 500ms.
	Event Log	Add Port tripped event log.
	Modbus Status	Added PA Link status bits to Modbus Status.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
2.001.012	DPV1 Class 2 connection timeouts	Fixed anomaly where DPV1 Class 2 connections could remain open if not correctly closed by the DTM.
2.001.011	Default Gateway	Fixed issue that would not allow more than two Modbus TCP devices on a remote subnet to communicate via the same default gateway.
	Discovery Scan	Fixed anomaly that could hang the PROFIBUS device discovery when the returned packet always has an checksum error.
2.001.010	None	-
2.001.009	Master Redundancy	When the PA Link goes offline, to standby Master, then it should not have processed any request packets as it could result in responses causing duplicate node detections.
2.001.008	Log Startup	Fixed anomaly where on power up the module event log could cause the module to restart.
2.001.003	Modbus Master	Fixed anomaly which was sending incorrectly formatted read request.
	Profibus Master	Resolved minor anomalies when re-enabling Operate in Profibus Master when Modbus communication is re-established.
2.001.002	Config Validation	Fixed issue with config validation.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
2.001.012	None	-