

XPosition

Release Notes

A-XGPS

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Firmware Revision 1.011

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.011 of the XPosition module will require the following compatible versions:

Software	Version
Slate	1.052 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
XPosition User Manual XPosition Datasheet Example Code & UDTs	http://www.aparian.com/products/xposition
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
Trimble precision devices	http://www.trimble.com/tsg/precision-gnss.aspx

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
1.011	ODVA	Update to meet the latest ODVA conformance testing.
	NMEA Stats	Added NMEA individual packet statistics.
	NMEA TCP	Added support for TCP packet handling of certain new Trimble units.
1.010	Modbus TCP	Added support for Modbus TCP
1.009	North/East Calcs	Updated North/East calculations to be more accurate.
1.008	Statistics	Added additional statistics for better debugging.
1.007	NMEA	Updates to NMEA protocol.
	NMEA TCP	Packet size is increased to 10,000 bytes per NMEA transaction.
	ENIP	Updates to EtherNet/IP library.
1.006	Position Accuracy	Improved accuracy on relative position calculation by taking into account elevation.
1.005	EtherNet/IP	Updates to EtherNet/IP and CIP libraries

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.011	None	-
1.007	NMEA	Packet sizes of NMEA packets are checked before loading buffer.
1.006	NMEA	Fix updating of GPS Quality Indicator

1.005	Ethernet	Fix for certain broadcast Ethernet packets that were being re-broadcasted.
	Relative Position	Fix issue of relative position in Logix not updating.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.011	None	-