Product Release Notice

DATRAN XL4 Plus RTU

QTECH
DATA SYSTEMS

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Introduction

QTech advise that we have released the following DATRAN XL4 *Plus* RTU updates:
- Firmware version 7.16
- Bootloader version 3.03.

QTech views this as an optional upgrade but still recommends that all DATRAN XL4 *Plus* RTUs are upgraded to this firmware version. It is requested that a list of the Serial Numbers of all equipment post upgrade to this version of firmware is provided to assist in monitoring its use and efficacy.

The following sections of this document describe the enhancements and the installation prerequisites. Your feedback on the product and possible future enhancements is always appreciated.

Summary of New Features and Modifications

This version introduces a new feature which supports the use of 32-bit Floating-Point Registers in Modbus Devices connected to the XL4 *Plus* RTU, when configured as a Modbus Master.

This enables some newer devices such as Chlorine analysers, UVT and turbidity sensors to be interfaced to the RTU. Firmware testing was undertaken using the SWAN AMI-2 Turbiwell Turbidity Instrument.

Floating point conversion is managed with new DLP functions to convert between Floating Point and Integer for data interchange with DATRAN VI. This release requires a new version of DLP IDE (v4.04) to be installed to enable utilising Floating-Point numbers in any DLP that requires Floating-Point registers.

Please click here for an Application Note on the correct configuration and use Floating Point numbers in a DATRAN VI system.

In addition, other modifications and changes in the release include:
- A fix with USB port interface (in the application and bootloader) which prevents attached devices from being detected after an RTU restarts.
- Updated processing of the DLP within the RTU.
- A fix for a problem that occurs occasionally because the QComms server sometimes overwrites the RTU datalogging buffer size, leading to an unexpected number of log data records being transferred.

This firmware release is accompanied by a new Bootloader version (V3.03) which must be applied to fully fix the USB port issue described above. The procedures for upgrading the application and the bootloader differ but both are defined in the XL4 RTU User Manual from page 34.

Prerequisites for Upgrade

Hardware Platform
This DATRAN XL4 *Plus* RTU Firmware Upgrade is designed for the XL4 *Plus* RTU.

To upgrade a DATRAN XL4 RTU to an XL4 *Plus*, please contact the QTech sales team at
sales@qtech.co.nz to order the upgrade licence key.
The serial number of the RTU to be upgraded is required.

Firmware Options Licencing
All pre-existing licence options for the RTU to be upgraded shall continue with this firmware upgrade.

Firmware Upgrade Process
To upgrade DATRAN XL4 *Plus* firmware, ensure you are using at least version of QTech's Workbench. Please click here to download the latest version then follow the procedure in the current version of the Owner's Manual available for download from this page of our website.

Ongoing Support

QTech Data Systems Ltd encourages clients to configure their systems to allow remote access via a directly connected modem or internet-based VPN. This allows for off-site support from either QTech Data Systems Ltd staff, or in-house staff outside of work hours.

Reference Documentation

Please also refer to these documents available from our website:
Application Note - XL4 Plus Floating-Point Numbers
Release Notice - DATRAN DLP IDE V4_04

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