

IQ3D Firmware Revision Log.txt

*****IQ3D DRAG RACE FIRMWARE REVISION
LOG*****

Version 1.2 01/28/2016

- 1) First production release

Version 1.3 02/04/2016

- 1) Changed the warning message behavior when programmed to OR the inputs. It will only display the warning information for the warning input that is triggered.
- 2) Fixed dash resetting when attempting to upgrade the number of VNet channels.
- 3) Changed Trans Brake input to connector pin 5.

Version 1.4 - 03/07/2016

- 1) Fixed bug that would not allow the display of values greater than 32767.

Version 1.5 - 05/18/2016

- 1) Fixed issue that could cause a problem with the date when setting with the SD card.
- 2) Extended the USB to VNet bridge timeout to avoid read/write errors if messages are delayed.

Version 2.0 - 06/28/2016

- 1) Added support for FuelTech CAN 2.0 interface protocol.

Version 2.1 - 07/07/2016

- 1) Changed the FuelTech CAN 2.0 default max RPM scaling from 1,000 to 10,000.
- 2) Fixed Electromotive TECGT default VNet ID conflict.
- 3) Added support for Life F88 ECU.

Version 2.2 - 07/13/2016

- 1) Added support for Maxx ECU.
- 2) Fixed issue causing missing Atomic TBI channels buttons.
- 3) Fixed issue with exponent when recording some OBDII channels.

Version 2.3 - 07/22/2016

- 1) Added Record Time VNet message.
- 2) Added EFI config channel to Pro EFI so user can enable additional channels. Requires DataLink v4.7.2.
- 3) This update will cause the module to revert to factory default settings.

Version 2.4 - 09/12/2016

- 1) Updated updated Pro EFI to latest data stream specs. Requires DataLink v4.7.3
- 2) Added support EMS EM-Tech ECU's. Requires DataLink v4.7.3
- 3) Fixed issue that was causing RPM channels to update the VNET bus at 100Hz regardless of user setting.
- 4) Added support for 230-VM-4ANA7HS module.
- 5) Added support Emtron ECU's. Requires DataLink v4.7.4

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Version 2.5 - 11/08/2016

- 1) Added channel to allow the user to change the MEFI4 ECU ID. Requires DataLink v4.7.6
- 2) Modified decimal point handler when warnings are displayed.
- 3) Fixed issue that could cause EGT channels to not record.
- 4) Added flag in .ddf file when the number of supported VNET channels has been exceeded. This allows DataLink to provide a warning message when the .ddf file is uploaded. Requires DataLink v4.7.6

Version 2.6 - 12/02/2016

- 1) XOR all three 32-bit device ID words instead of using just one.
- 2) Verify that we get a response to supported OBDII PID request.
- 3) Fixed OBDII when vehicle uses 29 bit addressing.
- 4) Fixed issue that was causing the Motec interface to not properly sync.
- 5) Fixed issue that could prevent writing to ECU channels when changing the ECU type and writing the entire config at once.
- 6) Disable ECU CAN bus if errors are detected. This should prevent crashing the ECU bus if the incorrect ECU is selected.

Version 2.7 - 12/13/2016

- 1) Changed OBDII CAN bus detection method.

Version 2.8 - 09/12/2017

- 1) Record indefinitely if record length is set to zero
- 2) Added Polaris RZR.
- 3) Added ability to turn off CAN bus error detection.
WARNING: If CAN bus error detection is turned off and you connect to a ECU that is different than the one you have selected, you can crash the ECU CAN bus and potentially prevent the engine from running properly. This is particularly hazardous when connected to OBDII. So if you chose to turn off CAN bus error detection, you do so at your own risk.
- 4) Added the ability to transmit messages on the ECU CAN bus when User Configured is selected as ECU Type. Requires DataLink v4.8.6 or higher.

Version 2.9 - 01/08/2018

- 1) Fixed the default MEFI engine RPM and coolant temperature scalings.
- 2) Fixed problem that could cause the dash to hang if the VNet ID for gear calculation was set to Disabled.
- 3) Fixed FuelTech default max RPM from 1000 to 10000. This was causing the RPM value to overflow when it reached 3276.
- 4) Added a method to prevent a Fueltech 2.0 segmented packet from allocating too much memory.
- 5) Automatic recovery from pull up resistor state corruption caused by EMI noise. This will not prevent the corruption but will allow for automatic recovery after EMI noise occurs.

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Version 2.10 - 04/20/2018

- 1) Fixed problem that could cause the dash to hang if the VNet ID for gear calculation was set to Disabled.
- 2) Adds support for pullup resistor latch register PCB update.
- 3) Added workaround for Mini Cooper OBDII not responding to engine ECU PID request.

Version 2.11 - 07/27/2018

- 1) Fixed loss of communication when Racepak is turned on before the Haltech ECU and Buss Error Detection option is enabled.
- 2) Fixed issue that was causing negative number to display as zero if a decimal point was turned on.
- 3) Added support for Holley Dominator V4 Standard CAN protocol. Requires DataLink v4.8.11 or higher.
- 4) Added support for Holley Sniper CAN protocol. Requires DataLink v4.8.11 or higher.

Version 2.12 - 09/12/2018

- 1) Could not disable CAN Bus Error Detection option for OBDII.
- 2) Fixed shift light gear issue that was causing gear 2 shift to use gear 1 RPM, gear 3 shift to use gear 2 RPM, etc...