

Part Number: 230-VM-EFIMS2

MegaSquirt-II Interface Module

Module Configuration Setup:

Module Type: MEGASQUIRT-II

Serial Number: 501330

Sample Rate: All channels set to 20 samples per second:

| Input Number | Channel Name | V_Net ID # | EFI Variable | Default Units |
|--------------|-----------------|------------|----------------------|---------------|
| 1 | EFI Engine Rpm | 0x532 | Engine Rpm | RPM |
| 2 | EFI H2O Temp | 0x536 | Coolant Temp | DegF |
| 3 | EFI Intake Temp | 0x529 | Intake Air Temp | DegF |
| 4 | EFI MAP Press | 0x53C | Manifold Pressure | kPa |
| 5 | EFI Inj Pulse W | 0x520 | Injector Pulse Width | mSec |
| 6 | EFI TPS | 0x538 | Throttle Position | % |
| 7 | EFI Voltage | 0x52A | Battery Volts | V |
| 8 | EFI A/F 1 | 0x539 | A/F Ratio | AFR |
| 9 | EFI A/F 2 | 0x53A | A/F Ratio | AFR |
| 10 | O2 Correction | 0x551 | EGO Correction | % |
| 11 | Knock | 0x530 | Knock | V |
| 12 | EFI Ign Timing | 0x555 | Ignition Advance | Deg |
| 13 | Knock Retard | 0x526 | Knock Retard | Deg |

Description:

This interface module is used to convert the serial data stream from the MegaSquirt-II into a CAN bus data stream compatible with the RacePak V_Net System. Data from the module is then available for use with the full range of RacePak V_Net devices including on board displays, real time telemetry, and data logging applications. The module also provides setup capability to accommodate selection of scaling units, data logging sample rates and even custom sensor calibration.

Module Installation:

The V_Net connector module can be inserted at any location in the V_Net data bus in your vehicle. Select locations where the connector module can be mounted safely. Avoid mounting near heat sources and high voltage ignition wires. The connector module must be mounted in a location that does not exceed 185°F or the module will be damaged.

MegaSquirt-II Connection:

This module has been designed to interface directly to the MegaSquirt-II via the DB9 serial connector on the Module.

Configuration File Update:

Before you can use this module with a your data logger you will need to update your Car Configuration File in your PC. To perform this step you will need to connect the data logger to your PC using the units serial interface cable (See your units instruction manual for details). Next start the RacePak DataLink program. If you selected your car configuration file as the default configuration file, the file will be opened and the file tab for the car configuration file will be selected. If it is not, open your car configuration file by selecting the **Open Car Configuration** menu item located in the **Files** main menu selection.

Next apply power to your on board system, wait 10 seconds and select the **Read VNET Config** menu item located in the **Edit** main menu selection. The DataLink program will read in the configuration of your system. If everything works properly, a new channel button will be added to the configuration file for each of the 14 data channels.



IMPORTANT INFORMATION FOR V300 AND V500 DATA LOGGERS:

V300 Data Loggers Require Firmware Version 36 or Higher.

V500 Data Loggers Require Firmware Version 53 or Higher.

If you do not know how to check the firmware version currently installed in your V300 or V500 data logger, please call us 949-709-5555 for assistance.

If you have a V300 or V500 data logger and do not meet the minimum firmware version requirement, you will need to send your data logger to Racepak to have the firmware upgraded.

All other Racepak data loggers, including V300SD, will work with all firmware versions and do not require any firmware updates to work properly with this module.