Part Number: 230-VM-EFITECH

EFI Technology Interface Module

Module Configuration Setup:

Module Type: EFITech   **Serial Number: 501160**

Channel Number	Channel Name	V_Net ID #	EFI Variable	Default Units
1	EFI Engine RPM	0x532	Engine Rpm	RPM
2	EFI Voltage	0x52A	EFI Supply Voltage	v
3	EFI. TPS.	0x538	Throttle Pos.	%
4	Airbox Press	0x710	Airbox Pressure	Inches Hg
5	EFI Pan Vac	0x535	Crankcase Vacuum	Inches Hg
6	EFI Fuel Press	0x552	Fuel Pressure	PSI
7	EFI Oil Press	0x534	Oil Pressure	PSI
8	EFI Intake Temp	0x529	Intake Air Temp	Deg F
9	EFI H2O Temp	0x536	Coolant Temp	Deg F
10	EFI Oil Temp	0x553	Engine Oil Temp	Deg F
11	EFI A/F 1	0x539	Air/Fuel Ratio 1	Lambda
12	EFI A/F 2	0x53A	Air/Fuel Ratio 2	Lambda
13	EFI Gear Position	0x551	Selected Gear	
14	EFI Fuel Switch	0x554	Fuel Switch Position	
15	EFI Inj Duty C	0x521	Injector Duty Cycle	%
16	EFI Speed	0x533	Vehicle Speed	MPH
17	Fuel Used	0x709	Fuel Used	Gallons
18	EFI Inj Pulse W	0x520	Injector Pulse Width	milliseconds
19	EFI Ign Timing	0x555	Ignition Timing	Deg
20	Bottle 1	0x308	Nitrous Bottle 1 Press	PSI
21	Bottle 2	0x30F	Nitrous Bottle 2 Press	PSI

Description:

The EFI Technology interface module is used to convert the data stream from the EFI Tech data stream in to a format 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.

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.

EFI Technology Connection and Setup:

Connect the clear wire on the V_Net module to the TXD Output pin on the EFI Technology ECU.   Compatible ECU's and pin assignments are shown below.

ECU	Pin Assignment
EFI Technology X3	62
EFI Technology X5	62
EFI Technology Race 1.9	n
EFI Technology Race 2.1	L
EFI Technology R8	62
Edelbrock Pro-Flo XT-R	62
Edelbrock Pro-Flo XT plus	22 (26 pin connector)

You will need to turn on the 3rd party data stream in the ECU by performing the following procedure.

1. Connect the comms cable between the ECU and your PC.
2. Start the Power to Win Editor program.
3. From the Menu Bar select View->System Constants->Configuration.
4. Click on ECU Configuration and check the box labeled "Output 3rd party dash data".
5. Click on the Close button and then the Apply button.
6. You also need to ensure that you have the latest firmware installed in your ECU. Contact EFI Technology at (310) 793-2505 for assistance.
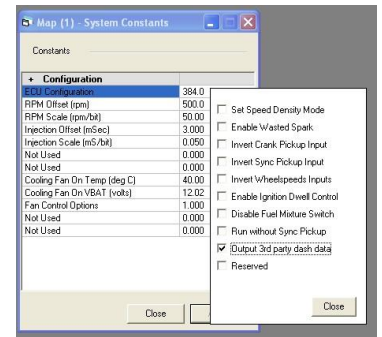
Software Setup and Module Configuration

Before you can use this module with your Racepak 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 data channels shown on the previous page.

If a new button is added, however, the button is captioned per the unit serial number (example: **SN 1001**), you have sensors in your system programmed to with the same V_Net ID as one of the channels in this module. You must change the V_Net ID on one of the sensors. In the case of duplicate sensors measuring the same value either remove the duplicate module or rename one of the modules with the E2 (engine 2) parameters.

To edit the setup parameters of any of the data channels, position the mouse cursor over the channel button and click the right mouse button. The VNET Input Channel Parameters dialog box will be displayed. A Portion of this dialog box is show below.

Locate the Input Number text box this value corresponds to the data channel from the module as outlined on page 1. If you change any of the default configurations for the channel be sure you are editing the proper input channel as pointed to by this value.

Locate the text box labeled **EFI TECHNOLOGY INTERFACE MODULE INSTRUCTIONS**. This text box provides online instructions for modifying the setup of this module. Read the instructions and modify the setup as desired. (Please note the scroll bars located on the left- hand portion of the text box are used to scroll through the instructions.
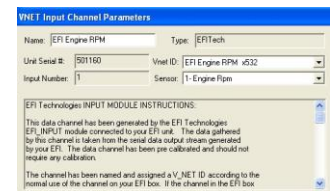
When you have finished editing the configuration on your PC, you will need to send the information to the sensor module. Be sure the serial interface cable is connected to your data logger and power is applied to the system. To send the information position the mouse cursor over the **Send Configuration** button and click the left mouse button. The progress box as shown to the left will be displayed.

When finished sending the message "**Device Programmed Successfully**" should be displayed at the bottom of the progress box. If you receive an error message, turn power to the system off and then back on and repeat the send configuration process. If problems persist, check the troubleshooting section in your manual and then contact RacePak.

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.