AIM Infotech

Hondata KPro ECU

Release 1.02







This tutorial explains how to connect Hondata KPro ECU to AIM devices. Hondata KPro protocol can be used for properly managing the following ECU:

These requires the PRB calibration.

- KPro PRB;
- KPro PNF: `
- Kpro PND;
- Kpro PC;
- Kpro PRD.

1 Prerequisite

Hondata KPro ECU communicates with AIM devices using an optional board that has been properly designed and developed by AIM. Its part number is: X05EFIHKPRO and it is shown here below.





2 Software Setup

Hondata KPro ECU communicates and exports data to an external logger through the serial communication protocol. The ECU comes with KManager software and needs a software setup before connecting it to AIM devices. Install KManager software and follow these steps.

- Open KManager installation folder in your PC.
- Double click on it and search for "KManager.ini"



Right click on it and select "Open with -> Notepad".



- The window here below appears;
- Add a row stating "Dataloggingoutput=1" after [Settings] one as shown here below;
- Save and close the file.



- Run "KManager" software;
- Press "Parameters";



• Press "Misc"

🥵 Hondata KManager 1.3.4.0 - [Parameters]	
🇱 File Edit Online Datalog Options View Window Help	
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Advanced Boost Control Closed Loop Fuel Trim Gear Comp Idle Knock / TPS Lean Protection MAP Misc	Nitro
Temp Compensation VTEC	



• Set "Datalogger Output (9.600 bps)" as shown here below.



- Power the ECU and upload the calibration.
- Connect AIM device to pin E24 of the ECU right connector (a serial stream on E24 should appear whenever the ECU is powered on).

Please note: for further information concerning ECU firmware / software settings and/or upgrading it is always recommended to address to the ECU dealer.

3 Wiring connection

Hondata KPro ECU connects with AIM devices through the AIM Board and the ECU "E" connector shown below.







Here follows connection diagram of AIM device, AIM Board and Hondata KPro ECU and connection table.



4 AIM Logger configuration

Once the ECU connected to the logger, this last one is to be configured as connected to that ECU.

Run Race Studio 2 software and follow this path:

- Device Configuration -> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Hondata" and ECU Model "KPro";
- transmit the configuration to the device pressing "Transmit".



5 Available channels

Channels received by AIM loggers connected to Hondata KPro ECU are:

ID	CHANNEL NAME	FUNCTION
ECU_1	HONDATA_RPM	RPM
ECU_2	HONDATA_SPEED	Vehicle speed
ECU_3	HONDATA_GEAR	Engaged gear
ECU_4	HONDATA_ECT	Engine cooling temperature
ECU_5	HONDATA_IAT	Intake air temperature
ECU_6	HONDATA_BATTERY	Battery voltage supply
ECU_7	HONDATA_TPS	Throttle position sensor
ECU_8	HONDATA_MAP	Manifold Air Pressure
ECU_9	HONDATA_INJECTOR_TIME	Injection time
ECU_10	HONDATA_IGNITION_PHASE	Ignition phase
ECU_11	HONDATA_REVERSE_LOCKOUT	Reverse lockout
ECU_12	HONDATA_BRAKE_SWITCH	Brake indicator
ECU_13	HONDATA_SCS	SCS
ECU_14	HONDATA_EPS	EPS
ECU_15	HONDATA_FUEL_PUMP	Fuel pump indicator
ECU_16	HONDATA_RADIATOR_FAN	Radiator fan indicator
ECU_17	HONDATA_VTEC_OIL_PRESS	Oil pressure
ECU_18	HONDATA_VTECS1	Solenoid indicator 1
ECU_19	HONDATA_VTECS2	Solenoid indicator 2
ECU_20	HONDATA_MIL	Malfunctioning indicator lamp
ECU_21	HONDATA_CAM_ANGLE	Cam angle
ECU_22	HONDATA_LAMBDA	Lambda value
ECU_23	HONDATA_AFR	Air/Fuel ratio
ECU_24	HONDATA_KNOCK_COUNT	Knock since power on