AiM InfoTech

DUQUEINE – D09_V35A_V51

Release 1.00

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Supported models and years

This user guide explains how to connect Duqueine's ECU to AiM devices. Supported models are:

- Duqueine D09 LMP3 (V35A engined - V51)   2025 onwards

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Wiring connection

These models are equipped with a specific manufacturer protocol based on CAN, accessible through the CAN Data Camera connector located on the left of the driver's headrest. The connector to use is a DTM04-4P and here below is the connection table detail.

DTM 04-4P pin nr	Function	AiM cable	AiM color cable
2	CAN H	CAN +	White
3	CAN L	CAN -	Blue

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Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **DUQUEINE**
- ECU Model: **D09_V35A_V51** (RS3 Only)

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"DUQUEINE - D09_V35A_V51" protocol

Channels received by AiM devices configured with "DUQUEINE - D09_V35A_V51" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
rPedal	Pedal position sensor
Gear	Engaged gear
aSteering	Steering position angle
pBrakeF	Brake pressure front
pBrakeR	Brake pressure rear
vBarrel	Barrel voltage
CarSpeed	Vehicle speed
WSpeed FL	Wheel speed front left
WSpeed FR	Wheel speed front right
WSpeed RL	Wheel speed rear left
WSpeed RR	Wheel speed rear right
VTankLevelEstd	Estimated fuel level volume
VFuelConsLap	Fuel consumption per lap volume
vFuelCons	Fuel consumption from fill up volume

BattVolt	Battery voltage
tWater	Water temperature
tAir	Intake air temperature
tOil	Engine oil temperature
tOilGbx	Gearbox oil temperature
tExhaust	Exhaust temperature bank 1
tExhaust2	Exhaust temperature bank 2
Lbd1OutRich	Lambda bank 1
Lbd2OutRich	Lambda bank 2
BrakeTempFL	Brake temperature front left
BrakeTempFR	Brake temperature front right
TPMSFLTemp	TPMS front left tire temperature
TPMSFRTemp	TPMS front right tire temperature
TPMSRLTemp	TPMS rear left tire temperature
TPMSRRTemp	TPMS rear right tire temperature
AirCompTemp	Air compressor temperature
Tspare5	Spare temperature input 5
Tspare6	Spare temperature input 6
pWater	Water pressure
pOil	Oil pressure
pRail	Fuel rail pressure
pFuel	Fuel low pump pressure
pClutch	Clutch pressure
pBaro	Barometric pressure
TPMSFLPressure	TPMS front left tire pressure
TPMSFRPressure	TPMS front right tire pressure
TPMSRLPressure	TPMS rear left tire pressure
TPMSRRPressure	TPMS rear right tire pressure
AirCompPressur	Air compressor pressure
xDamper FL	Damper position front left
xDamper FR	Damper position front right
xDamper RL	Damper position rear left

xDamper RR	Damper position rear right
SwFuelP2 State	Fuel pump 2 switch state
SwResAlarmState	Reset alarm switch state
AirCompState	Air compressor state
DashAlarm	Dash alarm
ELB EngineSN	ELB engine serial number
eWG1lrn Report	Electrical wastegate 1 learning report
eWG2lrn Report	Electrical wastegate 2 learning report
PedThrLearnState	Throttle pedal learn state
PedThrLearnTime	Throttle pedal learn timer
RotPedal Pos	Pedal rules rotary position
RotTCPos	Traction control rotary selector
SwForceFPState	Force fuel pump switch state
Ignition	Ignition power state
IgnLim Active	Ignition active limiter
IgnLimAbs	Ignition absolute engine limiter
SwFCYState	Full course yellow switch state
FCYiSpeed	Full course yellow limiter speed selection
PITTgtSpeed	Pit limiter target speed
PITiSpeed	Pit limiter speed selection
SwPitLimState	Pit limiter switch state
SwHeadRestState	Headrest switch state
SwRainLightState	Rain light switch state
TCState	Traction control enable
rdElementFront	3rd element front
SwFuelLowState	Low fuel switch state
Dash LumLed	Dashboard LEDs brightness
Dash LumDisp	Dashboard display brightness
An9Corr	Analog 9
ELB EngTime	ELB engine time
ELB TotalKm	ELB engine total mode kilometers
ELB EngKm	ELB engine kilometers

PbuCh1Cur	Powerbox channel 1 current
PbuCh2Cur	Powerbox channel 2 current
PbuCh8Cur	Powerbox channel 8 current
PbuCh9Cur	Powerbox channel 9 current
SRG Beacon	Lap beacon
LogCurrentLap	Current lap number
LogLapTime	Lap time
Act LapTime	Actual lap time
BestLapTime	Best lap time
ParDiffBestTime	Partial difference from best time
AuxLapDiffBestTi	Lap difference withAnalog 9 best time

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.