

# LEM G3 – Toyota Yaris AdaptaLink

Board Revision V1.0

This AdaptaLink is designed to reduce installation effort by allowing an almost direct plug-in of a Link LEM<sup>G3</sup> ECU to the following vehicles:

- Toyota Yaris (2NZ-FE Engine)
- Toyota Will (2NZ-FE Engine)

The AdaptaLink must be configured for each application by fitting the jumpers in the correct locations. To do this, remove one end plate from the AdaptaLink enclosure then slide out the top cover. In some cases additional modifications are required.

## Disclaimer

All care has been taken to ensure the pin outs and interconnections of this ECU AdaptaLink board are correct. However due to variations between vehicle models it is the installers responsibility to check wiring connections BEFORE installing the AdaptaLink. Link ElectroSystems will not be held responsible for any damage caused by the incorrect installation of this product.

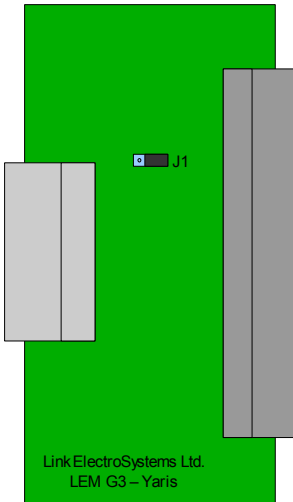
# Injector Impedance

This AdaptaLink is fitted with internal Peak and Hold Injection circuitry. It has been designed to be used directly with LOW impedance (less than 6 Ohms) injectors. Ballast resistors are not required if low impedance injectors are to be used. Consult the ECU's Wiring and Installation manual for more information on injector wiring.

## Limitations

- This AdaptaLink has been designed for use with manual transmissions only. Use of this AdaptaLink with an automatic transmission may cause unexpected transmission operation.
- As the LEM<sup>G3</sup> has a limited number of inputs and outputs, not all of the sensors and actuators used by the factory ECU can be used. If a sensor/actuator is required that is not used wiring modification may be required.

# AdaptaLink Options



## Digital Input 1

Jumper J1 selects what is connected to the ECU's DI1 (Aux4) pin. Set the jumper in the "DI1 = A/C In" position if the air conditioning is to be retained. Otherwise, fit the jumper in the "DI1 = Speed" position. This will allow the ECU to measure vehicle speed for functions such as launch control and idle speed control.

**Toyota Yaris/Will 2NZ-FE**

<b>LEM<sup>G3</sup> Function</b>	<b>Sensor / Actuator</b>	<b>Configure as</b>
Inj 1	Injectors 1 and 3	Multi-point Group Injection
Inj 2	Injectors 2 and 4	
Ign 1	Ignition Signal 1	Direct Spark Ignition
Ign 2	Ignition Signal 2	
Ign 3	Ignition Signal 3	
Ign 4	Ignition Signal 4	
Aux 1	ISC Valve	ISC Solenoid
Aux 2	Engine Fans	Engine Fan
Aux 3	Oxygen Sensor Heater	GP Output
DI 1 / Aux 4	Speed or AC In	Select DI 1 input using J1
Aux 5	Tacho Signal	Tacho
Aux 6	CE Light	CE Light
Aux 7	A/C Ouput	A/C Clutch
Aux 8	Circuit Opening Relay	Fuel Pump
An Temp 1	Engine Coolant Temperature (ECT)	ECT
An Temp 2	Intake Air Temperature (IAT)	IAT
An Volt 1	Oxygen Sensor Signal 1	Voltage 0-5V
An Volt 2	Oxygen Sensor Signal 2	Voltage 0-5V
An Load 3 (TPS)	Throttle Position	TPS