

# LinkPlus

Wire-In Engine Management



Wire-In  
Engine Management

Link ElectroSystems Ltd

# Link

## Wire-In Engine Management

The Link Engine Management range divides into three groups.

### 1. Wire-in Engine Management

These flexible systems are designed to be installed in virtually any application where an electronically controlled engine is fitted. They are fully configurable and come with a multi-purpose breakout loom. There are two models as detailed.

### 2. Plug-in Engine Management

These are dedicated systems built for a specific application. There is very little installation required as they plug into the factory connectors and are installed in place of the factory circuit board inside the original ECU housing. Like the wire in systems they are fully adjustable using the Remote Tuning Module. These devices are described in the pamphlet called Plug-In Engine Management.

### 3. Ancillary Devices

Link ancillary devices retune the factory engine management system when it is operational and requires minor adjustment. These devices are described in the pamphlet called Ancillary Devices.

# The Link Advantage

## Design

Link Engine Management Systems are designed with the final result in mind. It is very easy to “pack” a computer with features but each additional feature has to be applied, wired and “tuned in”. We use thru-hole components for reliability and incorporate fusible links into the PCB’s for ease of service.

## Performance

While it is tempting to focus on the technical side it is the drivability, performance and outlay that matters. Making an engine “go hard” is not the only consideration, it is the refinements and ancillary devices that the system can handle that often make the difference between a system that delivers and a disappointing system. Link Engine Management’s performance is second to none winning national and international events worldwide.

## Cost

When considering purchasing an Engine Management System don’t forget there are three costs to any system on the market:

1. The purchase price of the management system.
2. The installation charge.
3. The set-up and tuning time, including dyno / gas analysers etc.

The Link Engine Management System not only has a very competitive purchase price but is able to be installed by a careful / knowledgeable home enthusiast. Alternatively a professional installer can install the Link Engine Management System in a minimum of time. The engine can often be tuned without the aid of a dyno thereby reducing costs further. This is possible due to the ease of the Remote Tuning Module as opposed to adapting a Laptop PC. Often road applications are tuned in as little as an hour.

There are two “wire-in” systems available. The more modest of the two is simply called the “Link Engine Management” system while the “LinkPlus Engine Management” system is the more powerful, fully configured system. Both systems offer fully mapped fuel, ignition and boost control.



LinkPlus Engine Management incorporates all the features of the Link Engine Management system but has the benefit of having many more inputs and drivers so it can handle most functions simultaneously. The LinkPlus system also has the following:

Standard Feature	Benefit
✓ Eight Injector Drives	Up to eight cylinder engines sequentially injected.
✓ Two RPM Switches	Manifold, Cam, VTEC, shift light - 2 drives available.
✓ Tachometer Drive	Use factory low level tacho.
✓ Water Spray	Cool inlet air temperature via the intercooler.
✓ Air Conditioning Switching	Switches on A/C after idle speed adjustment.
✓ Purge Control	Evacuate charcoal canister for emissions purposes.
✓ Air Conditioning Fan	Controls A/C fan when A/C is on.
✓ Ambient Air Temperature Sensor	Adjusts fuel for hot conditions & turns water spray on.
✓ Transmission Inhibitor Switch	Stops idle speed control "loading up" engine when drive selected.
✓ Idle Speed Control	All factory idle speed controllers supported (solenoid or stepper motor).
✓ Closed Loop Knock Control	Automatically tunes the advance curve and monitors engine "noise" (one or two knock sensors).
✓ Shift Light	Alert driver to high RPM. If RPM switches are free then optionally configure to be a three stage shift light.
✓ Datalogging	Up to half hour data recording of major inputs and outputs.
✓ Dual Zone Maps	For different fuels or conditions.

**Link ElectroSystems Ltd**

• Ph 03-348 8854 • Fax 03-343 6195

• Christchurch • New Zealand