



# GDi80

## 4cyl Direct Injection EMS



The GDi80 is an advanced engine management system for direct injection engines for up to 4 cylinders. Features include active throttle control, wide-band lambda, gear shift control, high speed data logging with a large data logging memory capacity of 256 MBytes and high speed ethernet comms.

GEMS have been designing and manufacturing engine management systems for over 25 years and bring all of that experience along with the latest technologies to provide this highly capable yet cost effective system.

### + Features

- > Fully configurable with GWv4 software
- > Can drive DI or standard injectors
- > High speed data logging
- > Gearshift control
- > Active throttle control
- > Closed loop wideband lambda control
- > Drive by wire throttle control
- > Turbo wastegate control
- > Uneven firing angles
- > Multiple fuel, ignition, vvc tables
- > Up to 8 calibration combinations
- > Compact and lightweight

### + Specifications

- > 4 Direction injection drivers
- > 4 Ignition coil drivers
- > 4 PWM H-bridges, 8 PWM Low side drivers
- > CAN & Serial communications\*
- > 2 CAN2.0 bus
- > Ethernet PC communications
- > Size: 159x131x35mm (6.26x5.16x1.38")
- > 22 Analogue inputs\*
- > 8 Timing Inputs\*
- > Wideband lambda input (LSU4.2 or 4.9)
- > 256Mbyte internal logging memory
- > Internal 3-axis G-sensor and yaw
- > Internal Barometric sensor
- > Weight: 456g (1.01lbs)

### INDUSTRY SECTORS

- > Rallying
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### PRODUCTS AND SERVICES

- > Engine Management Systems
- > Transmission/Shift Control Systems
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- > Data Acquisition Systems
- > Power Management Systems

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\* Some inputs shared with PMWs