

T-SERIES ECU

T4



- Wideband Lambda control
- Up to 8 cylinders
- 18 inputs
- 17 outputs
- 7 control strategies
- IP67 billet aluminium case

The T4 can run 4-cylinder engines fully-sequentially or 6 and 8 cylinder engines semi-sequentially. Highlight features on the T4 are traction control, single variable cam control and a CNC machined, billet aluminium enclosure.

T-Series engine control units are powered by an all-new, automotive specific, multi-core processor. They feature Bosch lambda controllers for maximum accuracy, multiple safety redundancies, high resolution map tables, fully configurable I/O and up to 32Mb of up to 1Khz logging with compression algorithms for fast log downloads. The PC software has a user-friendly, responsive design for better readability on high resolution monitors using high scaling (DPI). It features a full oscilloscope for crankshaft/camshaft signal analysis and allows firmware to be upgraded without special cables or separate software.

INPUTS

Analogue (0-5v)	8
Digital	3
Thermistor (NTC)	3
Wheel Speed	2
Wideband Lambda	1
Knock	0

OUTPUTS

Digital (PWM)	8
Coil Drivers	4
Injector Drivers	4
Cam Solenoid Drivers	1
H-Bridge (FBW) Drivers	0

COMMUNICATIONS

USB	For PC connection
Serial	For dyno box connection
CAN bus	For communication with dashboards, power distribution modules, dataloggers etc.

CONTROL STRATEGIES

Auxiliary PWM Control	✓
Pit Limiter	✓
Launch Control	✓
Flat-shift Control	✓
VTEC Control	✓
Boost Control	✓
Idle Control	✓
Wideband Lambda	single
Variable Cam Control	single
Traction Control	✓
Wet/Dry Traction	X
Fly-by-wire Control	X
Knock Control	X
Paddle-shift Control	X

MISC

Dimensions	188x176x25-42mm
Weight	882g
Material	billet aluminium
Ingress Protection	IP67
Hardware Upgradeable	To T4+