

Life Racing Limited  
Unit 6 Repton Close  
Burnt Mills Industrial Estate  
Basildon  
Essex  
SS13 1LE  
United Kingdom

Phone: +44 1268 274421  
Fax: +44 1268 274420  
Email: [info@liferacing.com](mailto:info@liferacing.com)  
Web: [www.liferacing.com](http://www.liferacing.com)



## Life Racing F90 ECU

Processing	Powerful RISC CPU for advanced strategy execution Custom synchronous processor for engine position tracking and output diagnostics
Outputs	64 general purpose Pulse Width Modulated power outputs, including: Up to 12 ignition coil outputs Up to 24 conditioned voltage fuel injector outputs Up to 4 conditioned voltage directional motor drive output pairs Up to 4 current controlled valve outputs
Inputs	58 general purpose analogue sensor inputs, including: Up to 16 bipolar, inductive or hall effect speed / engine position inputs Up to 16 acoustic knock sensor inputs  2 wide band (NTK) lambda sensor interfaces 2 K-type thermocouple sensor interfaces
Interfaces	100 MHz full duplex Ethernet for calibration, configuration and data download 2 CAN 2.0B interfaces for communication with other controllers or logging systems RS232 serial interface for communication with other controllers or logging systems
Memory	8MB battery backed internal logging memory; download in under 10 seconds via Ethernet
Power	6 to 26V input voltage range with reverse polarity protection 4 regulated 5V sensor supply outputs with individual short circuit protection Software configurable (5 to 12V) sensor supply output (eg for 10V load cells) Unregulated sensor supply output which tracks the ECU supply voltage with nominal 17V clamp 8 separately protected sensor and communication ground inputs
Physical	4 Deutsch Autosport connectors with a total of 191 pins CNC machined, 'O' ring sealed, anodised aluminium case Maximum dimensions including the connectors 178 x 125 x 36 mm Total mass 725 grams