Datasheet

Carrot C-32 ECU



- Gasoline engines up to 8 cylinders
- Compact, aluminium waterproof housing
- 32-pin sealed automotive connector
- CAN-bus communication & programming

The Carrot C-32 engine control unit manages gasoline engines up to 8 cylinders. An engine control unit is a device that determines the amount of fuel, the moment of ignition and the associated parameters that are required to run a combustion engine. With its compact design, the C-32 is highly suitable for applications with small available installation space. It can be used in the most rough enviroments due to its waterproof aluminium housing and solid connector construction.

Application

5x Ignition outputs (non amplified)
Injector output (suitable for max. 8 injectors)
3x Auxiliary outputs (1A)
Tachometer output
Crank sensor input (hall or inductive)
Lambda control (used with Carrot UEGO controller)
Air temperature signal input (NTC 2.2kΩ)
Water temperature signal input (NTC 2.2kΩ)
Throttle position signal input
Manifold air pressure signal input
Oil pressure signal input
Gear position input
Variable launch RPM
Fuel pump relay control
Boost control
Launch control
Powershift control
Anti-Lag control

Technical Specifications

Aluminium housing
Sealed automotive connector, 32 pins
Size 108mm x 116mm x 42mm (LxWxH)
Power supply: 9v to 16v
1x CAN communication bus

Ordering information

Carrot C-32 ECU - C-010-0001	€550,-
Carrot communication interface - C-020-0002	€125,-
Break-out loom C-32 ECU - C-060-0001	€250,-
Main connector Carrot C-32 ECU - C-050-0001	€40,-

All prices are ex. VAT

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Powertrain Solutions

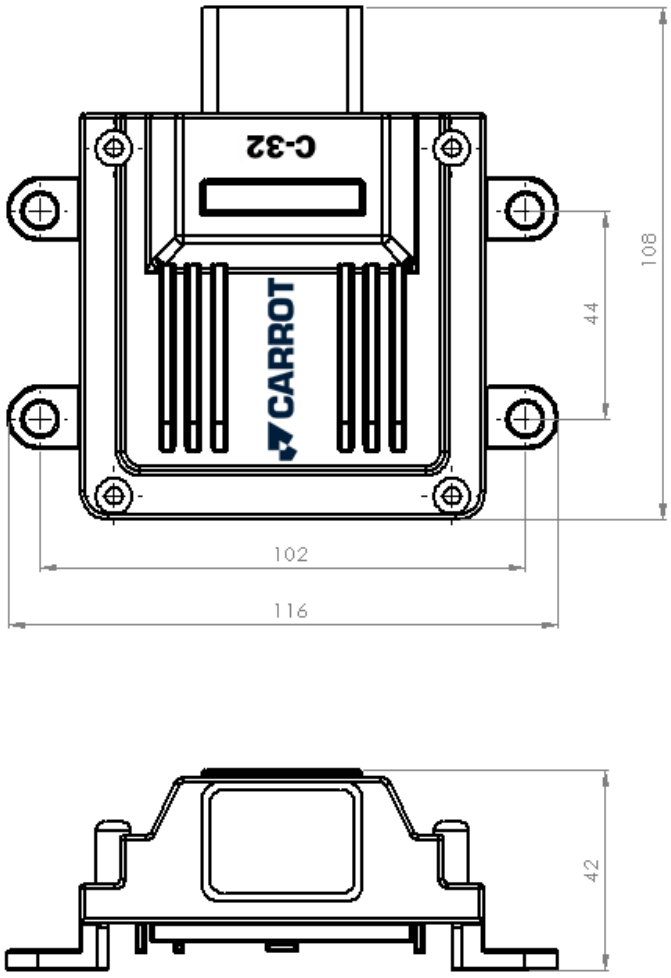
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Dimensions

Carrot C-32 ECU



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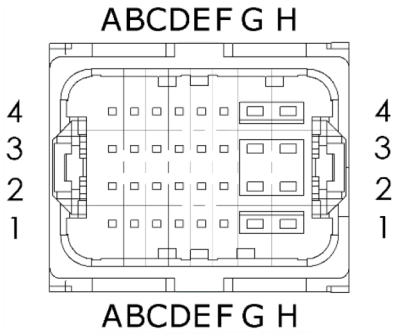
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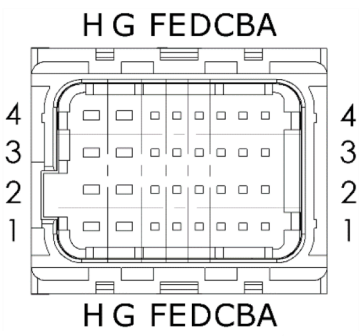
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Pinout

Carrot C-32 ECU



Front view



Rear view

Pin no.	Wire gauge mm2 (AWG)	Wire colour	Function
1A	0,35-0,5 (22-20)	White/Red	Analog aux input
1B	0,35-0,5 (22-20)	White	5v hall sensor
1C	0,35-0,5 (22-20)	White	Crank-sensor signal (hall or inductive)
1D	0,35-0,5 (22-20)	White/Grey	Manifold air pressure signal
1E	0,35-0,5 (22-20)	Purple	Ignition output 3
1F	0,35-0,5 (22-20)	Orange	Ignition output 1
1G	0,5 (20)	White/Purple	Aux 3 out
1H	0,5 (20)	White/Orange	Aux 1 out
2A	0,35-0,5 (22-20)	White/Yellow	Oil pressure signal
2B	0,35-0,5 (22-20)	White/Blue	Water temperature signal
2C	0,35-0,5 (22-20)	Yellow	5v sensor supply
2D	0,35-0,5 (22-20)	Grey	Throttle position signal
2E	0,35-0,5 (22-20)	Brown	Ignition output 4
2F	0,35-0,5 (22-20)	Green	Ignition output 2
2G	0,75 (18)	Red	12v ECU supply
2H	0,5 (20)	White/Black	Fuel pump relay
3A	0,35-0,5 (22-20)	White/Brown	Air temperature signal
3B	0,35-0,5 (22-20)	Blue	Launch control
3C	0,35-0,5 (22-20)	Brown	Powershift
3D	0,35-0,5 (22-20)	White	Lambda signal 1
3E	0,35-0,5 (22-20)	Blue	Ignition output 5 / Staged injection output
3F	0,35-0,5 (22-20)	White/Red	Tacho output
3G	0,75 (18)	Red	12v Injector supply
3H	0,75 (18)	White	Injector output
4A	0,35-0,5 (22-20)	White	CAN High
4B	0,35-0,5 (22-20)	Green	CAN Low
4C	0,35-0,5 (22-20)	Black	Sensor ground
4D	0,35-0,5 (22-20)	Black	Sensor ground
4E	0,35-0,5 (22-20)	Green	Boost control
4F	0,35-0,5 (22-20)	White/Green	Aux 2 out
4G	0,5 (20)	Black	Sensor ground
4H	0,75 (18)	Black	Power ECU ground

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