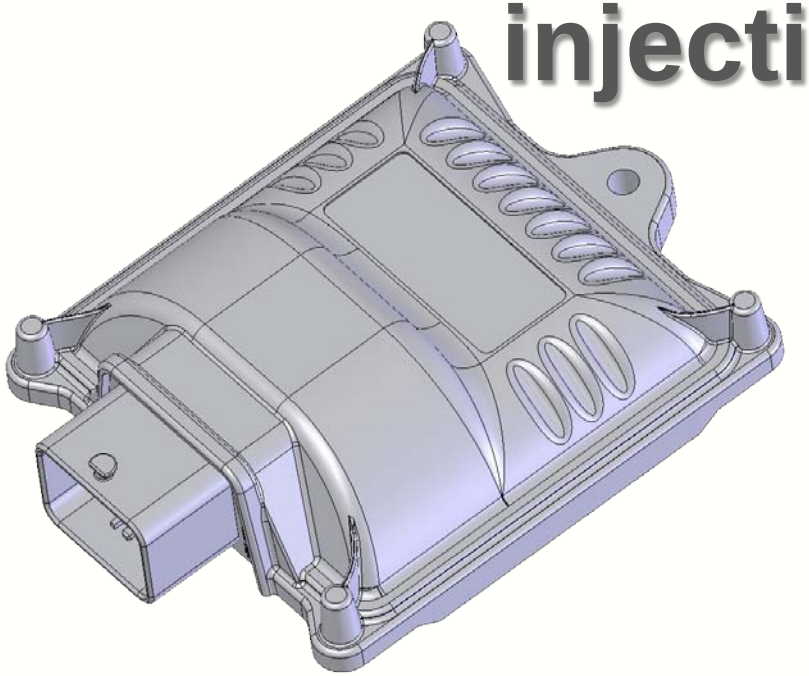
A.E.B.®

ALTERNATIVE FUEL ELECTRONICS

MP32
Sequential Multipoint injection 3-4 cyl



Beltrami Marco

Cavriago, 18th July 2012

Electrical Characteristics

- Supply voltage: V_{batt}= 10 ÷ 16V
- Working Temperature Range: -40 ÷ 105°C
- Quiescent current (actuators inhibited): $I_{max} \leq$ 0.5A
- Quiescent Current in standby: $I_{standby} \leq$ 5mA
- Injectors: I_{max}= 6A, $V_{batt,max}$= 16V
- Gas Valves (2 output):

  P_{max}= 50W, I_{max}= 4 A (single common output)

Sensors

- Gas Pressure Sensor: AEB025
- MAP Sensor: AEB025, Original
- Water Temperature Sensor: 4K7, Original
- Gas Level Sensor: AEB, 0-90 Ω, not standard, not standard inverted

MP32 vs other ECUs

Feature	AEB2001NC	MP48OBD	MP48	MP32
Extended map (12x12)	✓	✓	✓	✓
Progressive petrol to gas swicth	✓	✓	✓	X
Petrol addition management (idle, addition, high RPM)	✓	✓	✓	X
Diagnosys on gas injectors	✓	✓	✓	✓
Real time diagnosys on petrol injectors connection	✓	✓	✓	✓
Diagnosys on sensors and change over swicth	✓	✓	✓	✓
Gas injectors enable/disable for diagnistic purpose	✓	✓	✓	X
RPM reading from negative coil or Injection time	✓	✓	✓	**injection time only**

MP32 vs other ECUs

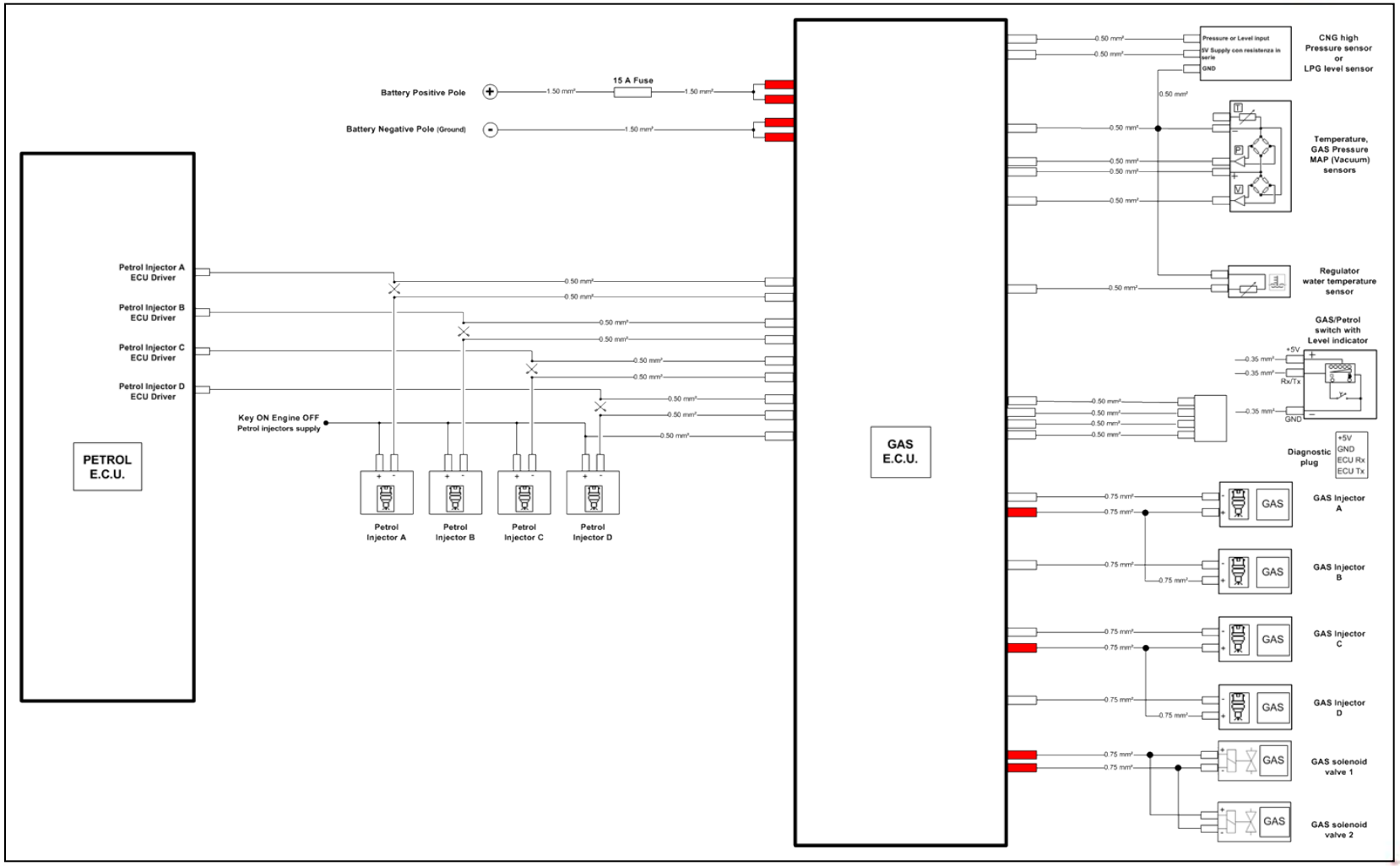
Feature	AEB2001NC	MP48OBD	MP48	MP32
Split fuel option	✓	✓	✓	X
Start & Stop vehicle managment	✓	✓	✓	✓
Lambda probe reading and emulation	✓ (two channel)	✓ (one channel)	✓ (just reading one channel)	X
Linear Lambda probe emulation (UEGO)	✓	✓	X	X
OBD II Adaptativity	✓	✓	X	X
Low standby current (Iq < 10µA)	✓	✓	X	X
EV diagnosys	✓	✓	X	X
AEB linear gas level sensor (Cartesio Hall Effect)	X	✓	X	X

Interchangeable

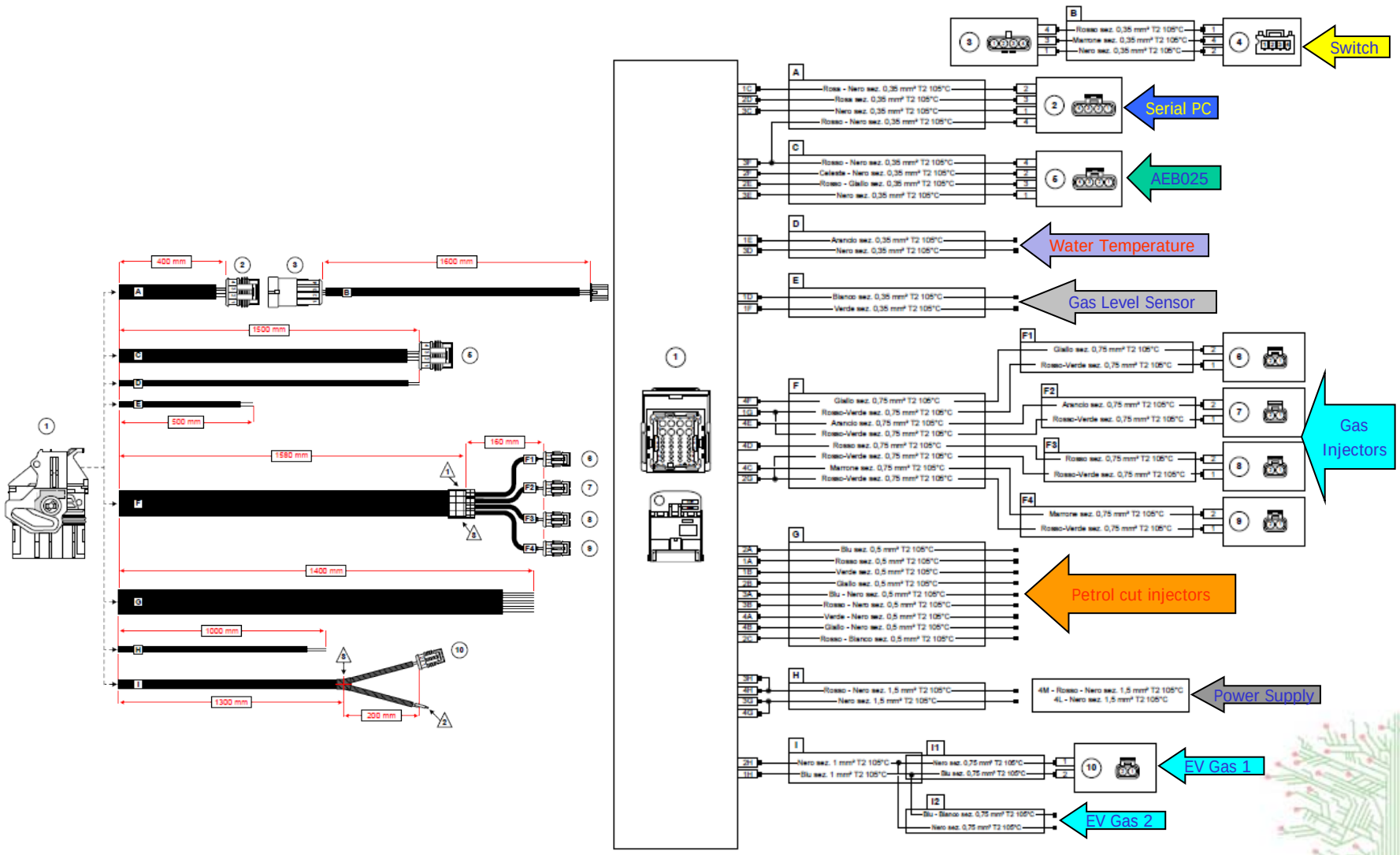
- Compatibility with actual software (V>x.x.x) ✓
- Compatibility with actual configurations ✓

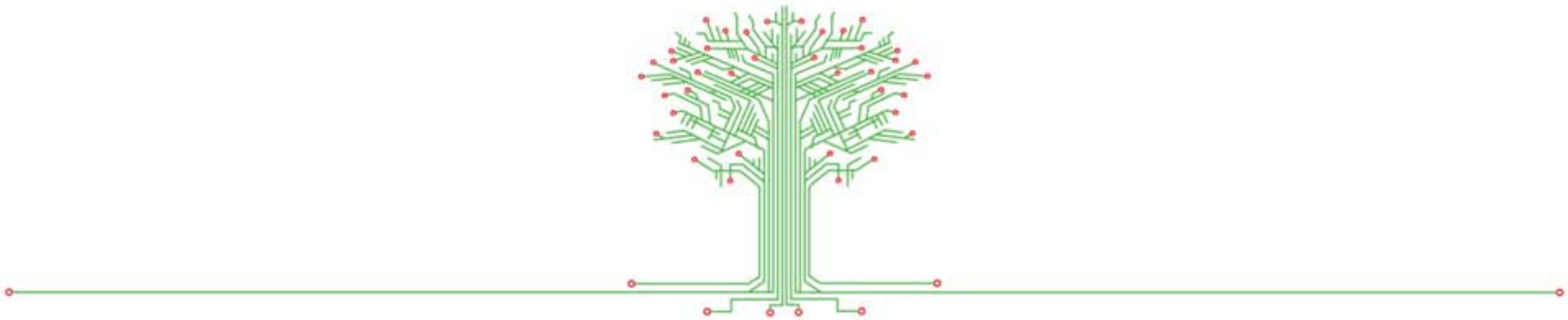
- Compatibility with actual kits X
- Compatibility with actual harnesses X
- Compatibility with actual firmwares X

Diagram



Harness drawing





A.E.B. S.P.A. a socio unico
Via dell'Industria 20 | 42025 Cavriago (RE) | Italia
Ph. +39 0522 494401 | fax +39 0522 494410 | info@aeb.it | www.aeb.it