

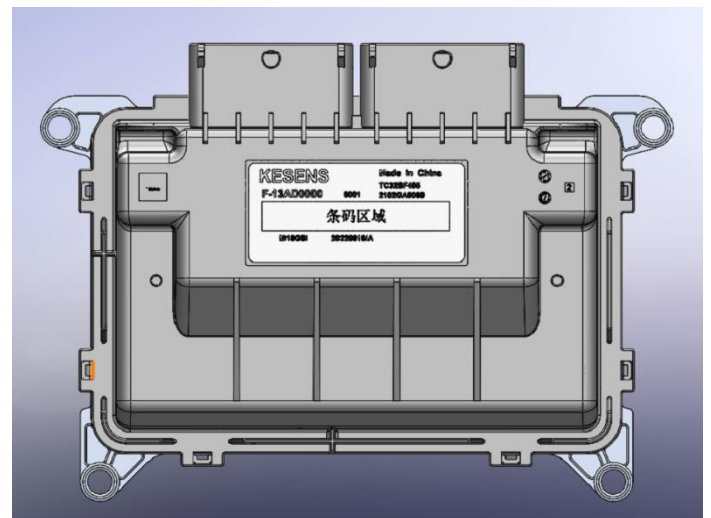
## 发动机多点喷射控制单元 MPFI Engine Control Unit

### 产品介绍 Product Introduction

凯晟发动机多点喷射控制单元适用于汽油机、天然气和双燃料（汽油/天然气）发动机，并满足欧五/欧六阶段排放法规的适应性标定。发动机多点喷射控制单元采用力矩控制模式，支持电子节气门、电控EGR阀、可变气门正时DCVVT、歧管多点喷射MPFI、电子水泵与电子节温器等先进热管理附件等。

KESENS MPFI Engine Control Unit is applicable to gasoline engines, CNG and dual fuel (gasoline/CNG) engines, and meets the adaptability calibration of Euro 5/Euro 6 emission regulations. The MPFI Engine Control Unit adopts torque control mode and supports advanced thermal management accessories such as electronic throttle body, electronic EGR valve, variable valve timing DCVVT, manifold multipoint injection MPFI, electronic water pump, electronic thermostat, etc

- ◆ 130针连接器，左腔65Pin，右腔65Pin设计  
130 pin connector, left cavity 65Pin, right cavity 65Pin design
- ◆ 3路H桥，9路频率信号输入  
3 H-bridge, 9 frequency signal input
- ◆ 20路数字信号输入，40路模拟信号输入  
20 digital signal inputs, 40 analog signal inputs
- ◆ 28路低边驱动输出  
28 low side drive outputs
- ◆ 3路CAN，2路Lin（可支持K线）  
3 CAN, 2 Lin (supporting K line)
- ◆ 防护等级为IP6K9K  
Protection grade: IP6K9K
- ◆ 长X宽X高：205X148X44mm  
Length X width X height: 205X148X44mm
- ◆ 工作电压：6~16V  
Operating voltage: 6~16V
- ◆ 工作温度：-40°C~105°C  
Operating temperature: -40°C~105°C
- ◆ 符合ISO及CISPR规定的电磁兼容规范  
Electromagnetic compatibility specifications in accordance with ISO and CISPR regulations



发动机多点喷射控制单元  
MPFI Engine Control Unit

### 产品优势 Product Advantages:

- ◆ 多样的安装方案  
Multiple installation solution
- ◆ 面向混合动力系统的方案  
HEV system solution
- ◆ 客户定制的系统解决方案  
Customized system solution

## 发动机多点喷射控制单元 MPFI Engine Control Unit

- ◆ 强大的工程服务能力  
Professional engineering service capability
- ◆ 模块化的开发确保交付品质与速度  
Modular development to ensure delivery quality and efficiency

### 产品特性 Product Features:

- ◆ 32位高性能主控芯片  
32 bits high performance MCU
- ◆ 基于扭矩的系统控制  
Torque based system control
- ◆ 支持机械或电子节气门  
Support MTB or ETC
- ◆ 支持自然吸气或增压系统控制  
Support PFI or Turbo charger system control
- ◆ 支持EGR, DVVT  
Support EGR and DVVT control
- ◆ 支持起停系统控制  
Support start-stop system control
- ◆ 支持碰撞断油功能  
Support collision fuel cut-off function
- ◆ 支持电子水泵, 电子节温器等先进热管理附件  
Support advanced thermal management accessories such as electronic water pumps and electronic thermostats
- ◆ 完备的安全监控算法满足ISO 26262 ASIL C等级  
Safety monitoring algorithm which can meet ISO 26262 ASIL C level
- ◆ 支持多样的变速箱控制系统, 如AT/AMT/CVT/DCT  
Support various transmission system like AT/AMT/CVT/DCT
- ◆ 满足欧五、欧六法规要求  
Meet Euro V, Euro VI emission standards
- ◆ 满足3缸、4缸PFI及涡轮增压发动机  
Meet the application of 3-cylinder, 4-cylinder PFI and turbocharged engine