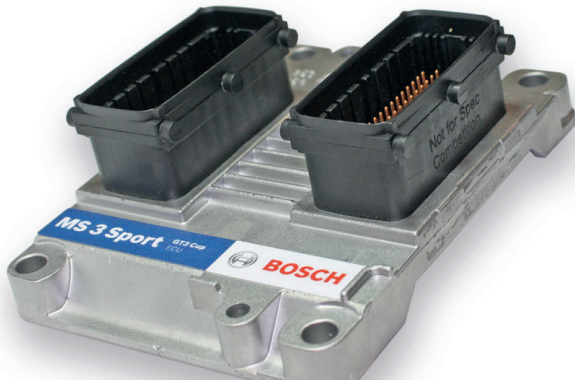


# Engine Control Unit MS 3 Sport GT3 Cup

www.bosch-motorsport.com



**Available in USA and Australia**

- ▶ Free and full access to the ECU
- ▶ No wiring changes necessary
- ▶ Support for 3rd party displays via CAN
- ▶ Plug and play with base “safe” calibration
- ▶ Pre-configured workbases for free Bosch Motorsport calibration tools

The MS 3 Sport GT3 Cup motorsport ECU enables you to optimize the software of Ex-Porsche GT3 Cup cars (996 GT3 Cup; 997 GT3 Cup) by getting full access to the ECU, allowing you to adapt it to any engine hardware changes. The software offers additional features and comes with a base calibration.

## Application

Compatible Porsche type series	996 GT3 Cup; 997 GT3 Cup
Engine layout	Max. 6 cyl., 2 bank
Control strategy	Alpha/n
Lambda control	Dual
Speed limiter	
Gear cut for sequential gear box	
Map switch corresponds to 3 different target lambda and spark maps.	
Fuel cut off	
Sequential fuel injection	
Asymmetric injection timing	
Asymmetric ignition timing	
Knock control	Inclusive
Traction control	Inclusive

Interface to Bosch Motorsport ABS M4 kit	
Support of 60-2 and 36-2 ignition trigger wheels	
Max. vibration	Vibration Profile 3 (see Appendix or www.bosch-motorsport.com)

## Technical Specifications

### Mechanical Data

Extremely small and flat aluminum pressure casting housing	
4 mounting points on housing	
2 connectors with high pin density	
Extremely shock and vibration proof hybrid technology	
Size	120 x 90 x 40 mm
Weight	250 g
Temperature range	-40 to 125°C

### Electrical Data

Max. power consumption	10 W at 14 V
<b>Power supply</b>	
Full operation	9 to 16 V
Recommended	11 to 14 V

**Inputs**

2 lambda interfaces LSU
4 inputs for Hall-effect wheel speed sensors
1 input for inductive crankshaft sensor
1 input for Hall-effect camshaft sensor
22 analog inputs 0 to 5 V
2 knock sensor inputs

**Outputs**

6 injection power stages
6 ignition power stages (7.5 to 8.0 A)
8 power stages (1 A/2 A; low side; PWM)
2 power stages for lambda heater
1 H-bridge (5 A)
2 sensor supplies 5 V/100 mA

**Software Tools**

Modas Sport Calibration Software	Inclusive
WinDarab Analysis Software	On request

**Environment (not included)**

Programming interface MSA-Box II	F 02U V00 327-03
Data logger C 50	F 02U V01 164-04
Display DDU 7	F 02U V01 130-04
12 steps switch for Traction Control	F 02U V01 921-01
Switch Position	Resistance [Ohm]
0	9.3
1	30.7
2	56.1
3	88.6
4	129.9
5	181.7
6	253.7
7	354.8
8	522.5
9	823.5
10	1,500.7
11	4,988.0

**Mating Connectors (not included)**

Mating Connector I	D 261 205 139-01
Mating Connector II	D 261 205 140-01

**Communication**

1 K-line serial interface
1 CAN interface

**Ordering Information**

**Engine Control Unit MS 3 Sport GT3 Cup**  
 Delivery with Porsche GT3 specific base calibration  
 Order number **F 02U V0U 082-01**

**Represented by:**

**Europe:**

Bosch Engineering GmbH  
Motorsport  
Robert-Bosch-Allee 1  
74232 Abstatt  
Germany  
Tel.: +49 7062 911 9101  
Fax: +49 7062 911 79104  
motorsport@bosch.com  
www.bosch-motorsport.de

**North America:**

Bosch Engineering North America  
Motorsport  
38000 Hills Tech Drive  
Farmington Hills, MI 48331-3417  
United States of America  
Tel.: +1 248 876 2977  
Fax: +1 248 876 7373  
motorsport@bosch.com  
www.bosch-motorsport.com

**Latin America:**

Robert Bosch Ltda  
Motorsport  
Av Juscelino Kubitscheck de  
Oliveira 11800  
Zip code 81460-900  
Curitiba - Parana  
Brasilia  
Tel.: +55 41 3341 2057  
Fax: +55 41 3341 2779

**Asia-Pacific:**

Bosch Engineering Japan K.K.  
Motorsport  
18F Queen's Tower C, 2-3-5 Minato Mirai  
Nishi-ku, Yokohama-shi  
Kanagawa 220-6218  
Japan  
Tel.: +81 45 650 5610  
Fax: +81 45 650 5611  
www.bosch-motorsport.jp

**Australia, New Zealand and South Africa:**

Robert Bosch Pty. Ltd  
Motorsport  
1555 Centre Road  
Clayton, Victoria, 3168  
Australia  
Tel.: +61 (3) 9541 3901  
motor.sport@au.bosch.com