



eM019

4 Analog Channels to CAN Converter

eM019 is a compact high-performance CAN device that can be used in Racing Applications to acquire up to four analog signals. It can be programmed directly via CAN and it offers also a +5V protected output to supply small external sensors. Battery voltage and Ambient Temperature are acquired and available on CAN too.

MAIN FEATURES

- ◆ Up to 4 channels 0...5V (protected from higher voltages)
- ◆ Resolution: 12 bit
- ◆ Data Refresh Frequency: max 200Hz
- ◆ Digital Programmable software filters (moving average) for each channel
- ◆ Digital Output: CAN BUS - programmable ID and baudrate
- ◆ Protected Output: +5V — max 70mA
- ◆ Fully programmable via CAN
- ◆ Battery Voltage (monitored): 8-18V (20mA)
- ◆ Cable length: 20cm — 9 wires AWG24
- ◆ Ambient Temperature Range: -40 ... +125°C
- ◆ Material: anodized aluminum
- ◆ Dimensions: 36.0 x 25.0 x 9.5mm
- ◆ Weight: <25g (includes cable)
- ◆ Protection grade: IP65

WIRING

SIGNAL	FUNCTION	WIRE COLOR
+12V	+12V Power Supply	Red
GND	GND Power Supply	Black
CAN H	CAN H Line	White
CAN L	CAN L Line	Green
+5V REF	0..5V Analog Output	Orange

SIGNAL	FUNCTION	WIRE COLOR
CH1	Analog Input #01	Yellow
CH2	Analog Input #02	Brown
CH3	Analog Input #03	Violet
CH4	Analog Input #04	Blue