

# Technical Specification

## TMS-6 Brushless DC Motor drive



### Electrical

Supply Voltage 5 to 24 V

### Mechanical

Rugged hard anodised aluminium case

Ambient operating temp -30°C to 110°C

Sealed IP6K6

Weight < 0.9 Kg

Dimensions 155 \* 135 \* 37 mm

### Other Features

Ignition Key wake up

BLDC motor drive with phase sensors – for actuation devices

Sensor-less motor drive – for pump application

Control input via CAN – speed, position, duty control

Feedback via CAN, bridge voltage, current, motor speed

Full source code developed in-house allowing feature development during prototype phase

### Connection

Signal IO - Industry standard UTS Hi Seal connector, 1 x 19 way

Power IO – Hardwired

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For more information:

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# Technical Specification

## TMS-20 Rapid Prototyping Controller



### Environmental

Designed for use in vehicles or test rigs

Designed for 12V operation, but 24V capable

-30°C to 105°C ambient temperature

6.5V-32V supply voltage

Plug-in top board with microprocessor giving flexibility to use customer-preferred target hardware.

- Existing: MPC5674F, MPC5566, MPC5554
- Fast turnaround for new boards

Enclosure is IP6K6 capable

Industry-available 121-way connector

Dimensions 155 \* 135 \* 37 mm

### Analogue Inputs

16 analogue inputs with standard 0..5V range

Other input ranges are possible

Hardware low-pass filter

### Digital Inputs

12 Speed/Switch inputs capable of fast input capture

1 Ignition switch input

.....continued

## Outputs

6 0.3A low-side drives – designed for relays

8 1.5A high-side drives – designed for low frequency 'on/off' solenoids or hydraulic valves

12 0-2.5A high-side drives – designed for driving hydraulic valves with PWM frequencies up to 3kHz

6 0-2.5A low-side drives – designed for driving hydraulic valves with PWM frequencies up to 3kHz

Closed-loop current control available on all PWM output channels

1 H-Bridge DC Motor Drive

## Display capability

Relay the contents of one CAN bus to an external device via Bluetooth

## Automotive communications

3 CAN bus up to 1Mbit/s, 1 channel has wake-on-CAN capability

1 LIN Transceiver

1 Flexray Transceiver

## Other high speed serial communications

RS485 10MHz buffered serial output

External buffered SPI connection

Potential for external USB connection

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