

Universal Off-Highway Control – TTC 110

General Description

TTC 110 is a powerful electronic control solution for the off-highway industry that relies on its equipment to function under the most difficult conditions.

It is part of a complete and compatible product family and is protected by a robust housing suited to the off-highway industry.

Specifications

Parameter		Unit
Dimensions	234 x 181 x 48	mm
Weight	790	g
Operating Temperature	-40 to +85	°C
Operating Altitude	0 to 4000	m
Supply Voltage	9 to 32	V
Peak Voltage	45	V _{max}
Idle Current	1 at 9V	A _{max}
Current	50	A _{max}
Fulfills the following standards		
CE-Mark	Conformity with 2004/108/EC	
EMC	ISO13766, up to 300 V/m, 20 MHz to 1GHz	
ESD	IEC 61000-4-2	
Load Dump	ISO 7637-2, 173 V, 2 Ohm	
Ingression Protection	DIN 40050 IP6k9k, EN 60529 IP65	
Temperature	EN 60068-2-1, -14Nb, -2, -78, -30	
Vibration, Shock, Bump	IEC 60068-2-29, -64, -27, -32	

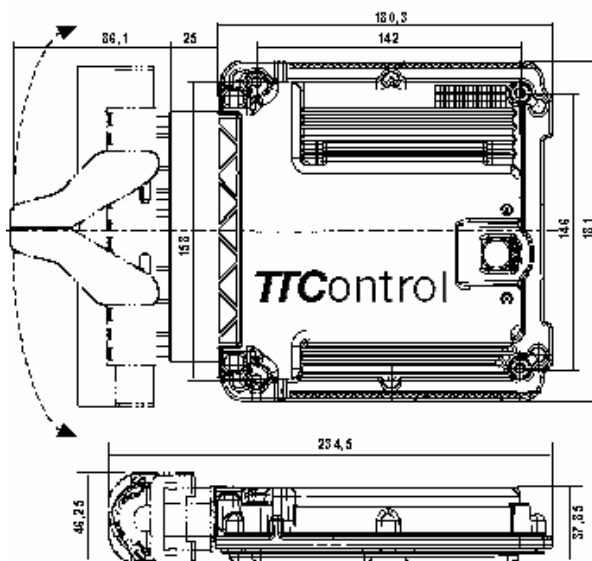
Features

All I/O's and interfaces mentioned below are protected against short circuit to GND and BAT+.

- 32-Bit Freescale MPC 555 processor, 40 MHz, 448 kB int. Flash, 26 kB int. RAM (+ 512 kB opt.), 2MB ext. Flash
- 16 kbit EEPROM
- 1 x RS-232 serial interface
- 2 x CAN, 500 kbit/s
- 8 x analog IN 0 to 5V or 4 to 20 mA / 10 bit, configured by software
- 12 x analog / digital IN 0 to 10V / 10 bit
- 8 x digital IN (timer 10Hz to 10kHz)
- 5 x digital IN
- 8 x digital OUT 2.35A high-side, PWM, current control loop, and open load detection
- 16 x digital OUT 4A high-side, open load detection
- Internal: monitoring of board temperature, sensor supply and battery
- 1 x sensor supply 10.5V
- 2 x sensor supply 5V
- Software for programming: CoDeSys® 2.3

Outline Dimensions

- Aluminum pressure die cast housing
- Splash-proof 154-pin connector
- Pressure adjusting with water barrier
- Housing fins for optimal temperature deduction

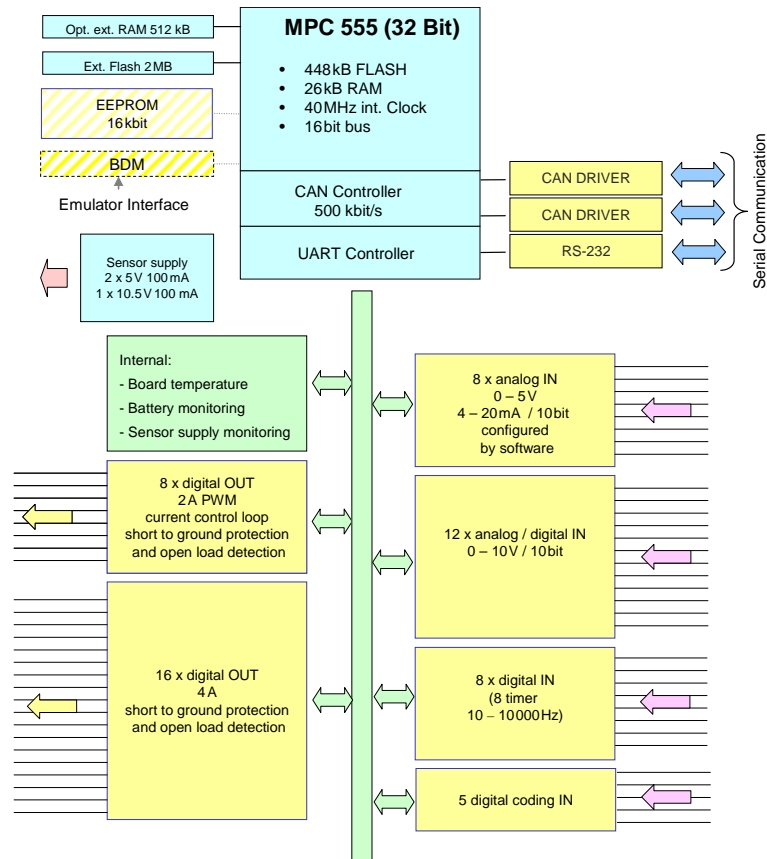


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Block diagram



Ordering Information

TTC 110 M R C N CD S