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# Part Number 921088, HY-TTC 60

HY-TTC 60 is a powerful electronic control solution for off-highway industries that is well-suited for the rough conditions in which it is used. It is part of a complete and compatible product family and is protected by a compact, automotive-style housing suited to mobile applications.



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## Specifications

**Model Code Description** HY-TTC 60-CD-594K-768K-0000-000

**Operating Temperature [Min]** -40 °C

**Operating Temperature [Max]** 85 °C

**Software** CODESYS 2.3 Including Support for CANopen

**Connector Type** 80 Pins

**Operating Altitude** 0 to 4000 m

**Supply Voltage** 8 to 32 V

<b>Maximum Peak Voltage</b>	45 V
<b>Maximum Standby Current</b>	0.5 mA
<b>Maximum Idle Current at 9 V</b>	0.15 A
<b>Maximum Current</b>	25 A
<b>European Conformity (CE) Mark</b>	2014/30/EU
<b>E - Mark</b>	ECE-R10 Rev.4
<b>Electromagnetic Compatibility (EMC)</b>	ISO13766, up to 200 V/m, 20 MHz to 1GHz
<b>Electrostatic Discharge (ESD)</b>	IEC61000-4-2
<b>Load Dump</b>	ISO7637-2, 173 V, 2 Ohm
<b>Ingress Protection (IP) Class</b>	DIN 40050 IP 6K9K EN 60529 IP 65, IP67
<b>Climatic</b>	EN 60068-2-1, -14Nb, -2, -78, -30
<b>Vibration, Shock, Bump</b>	IEC 60068-2-29, -64, -27, -32
<b>Communication Profile</b>	CODESYS
<b>Equipment Options</b>	Standard
<b>Weight</b>	1.43 lb
<b>Division</b>	ELECTRONICS
<b>Product Group Family</b>	MOBILE CONTROLLERS
<b>Product</b>	MOBILE CONTROLLERS / IO MODULES

## Dimensions

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<b>Length</b>	147.6 mm
<b>Depth</b>	39.8 mm

<b>Width</b>	180.3 mm
<b>Minimum Connector Release Clearance Height</b>	39.8 mm
<b>Minimum Connector Release Clearance Length</b>	197.7 mm
<b>Minimum Connector Release Clearance Width</b>	202.8 mm

## CPU Core

### CPU Core

- 16/32-bit Infineon XC2287 microcontroller, 80 MHz, 768 kB int. Flash, 82 kB int. RAM, 512 kB ext. RAM
- 64 kbit EEPROM

## Interface

### Interface

- 1 x RS-232 and 1 x LIN serial interfaces
- 2 x CAN, 125 kbit/s up to 1 Mbit/s

## Output Type

### Output Type

- 8 x digital OUT 2 A high-side, PWM, configurable as timer inputs
- 8 x digital OUT 4 A high-side, configurable as analog inputs

## Input Type

## Input Type

- 8 x analog IN 0 to 5 V or 4 to 20 mA / 10 bit, configured by software alternative use as resistive measurements
- 8 x analog IN 0 to 32 V / 10 bit, range configurable by SW
- 4 x current feedback, configurable as digital outputs/ lowside 2 A
- 4 x digital IN (4 timer 0.1 Hz to 10 kHz)
- 8 x digital IN

## Other

### Other

- Internal: monitoring of board temperature, sensor supply and battery
- 1 x sensor supply 8.5 V/10.0V/14.5V configurable
- 2 x sensor supply 5 V

## Note

All I/Os and interfaces mentioned are protected against short circuit to GND and BAT+.