

# GT7 Dashboard



## Key Features

- 7" High-Brightness TFT color display, 1024x600 resolution
- 10 configurable LEDs (color and brightness via app)
- 1 CAN interface with ECU communication support
- Analog/digital inputs and outputs for auxiliary systems

# Pinout Connector

**Pinout Description:**

PIN	Label	Description
1	CAN_L	CAN Low
2	CAN_H	CAN High
3	-	Empty/Not connected
4	GND	Gnd usb
5	USB_P	USB Data Positive
6	USB_N	USB Data Negative
7	5V_USB	5V USB
8	DIG1	Digital Input 1
9	DIG2	Digital Input 2
10	DIG3	Digital Input 3
11	DIG4	Digital Input 4
12	DIG5	Digital Input 5
13	DIG6	Digital Input 6
14	5V_OUT	5V Output
15	AN1	Analog Input 1
16	AN2	Analog Input 2
17	AN3	Analog Input 3
18	AN4	Analog Input 4
19	OUT_1	Output 1A
20	AN6	Analog Input 6
21	AN7	Analog Input 7
22	AN8	Analog Input 8
23	AN9	Analog Input 9
24	OUT_2	Output 1A
25	GND	Ground
26	12V_IN	12V Input

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Pinout diagram for power, CAN, inputs, and outputs.

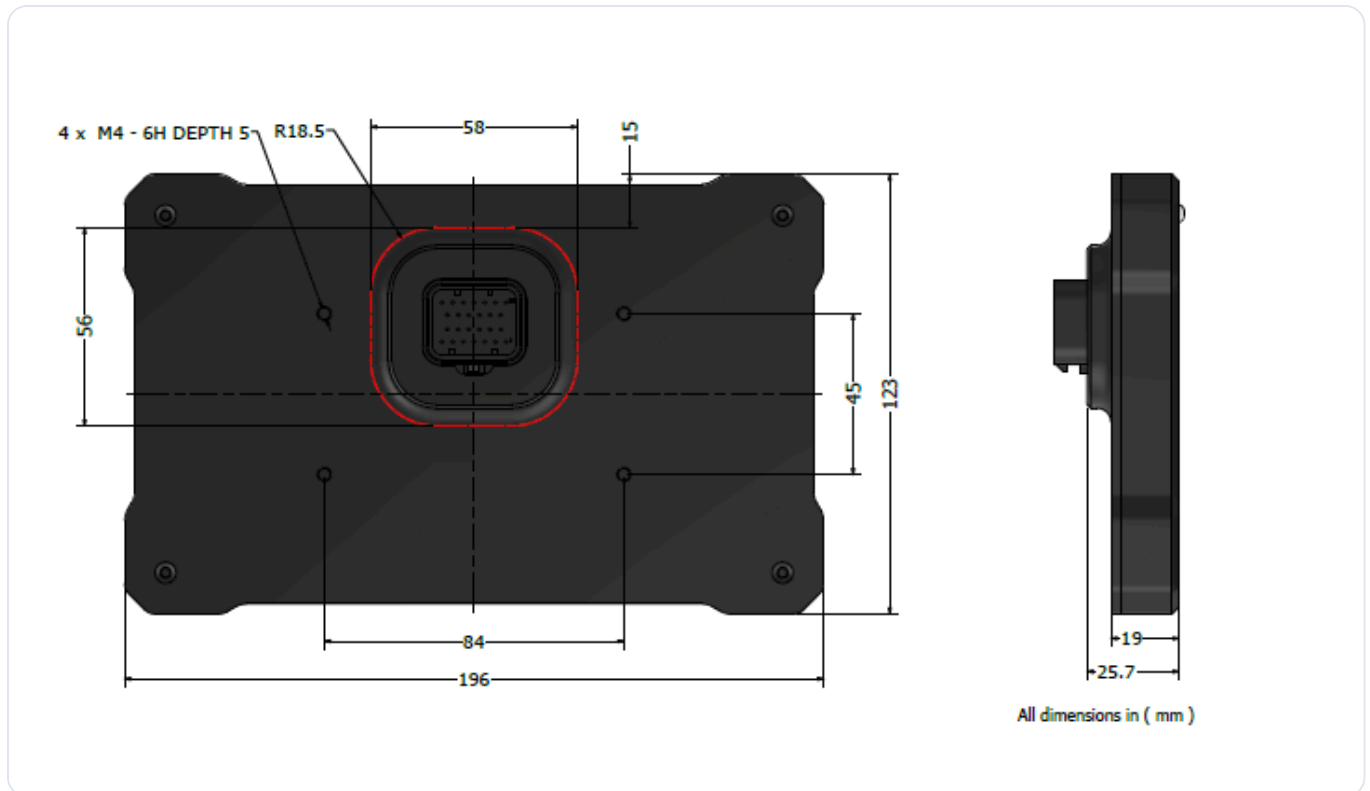
## Pin Table & Electrical Functions

Pin	Signal	Description
26	12V IN	Main power input.
4, 25	GND	System ground.
1, 2	CAN_L / CAN_H	ECU/CAN communication.
8..13	DIG1..DIG6	Digital inputs.
15,16,17,18,20,21,22,23	AN1..AN8	Analog inputs.
19 / 24	OUT1 / OUT2	Outputs for relays/indicators.

### Useful Notes

- Use an inline fuse for power, as shown in the pinout.
- Outputs are used for relays and indicator control.
- Digital/analog input behavior is configurable in the app.
- Analog channels: AN1..AN4 (Pin 15..18), plus AN5 (Pin 20), AN6 (Pin 21), AN7 (Pin 22), AN8 (Pin 23).

## Dimensions (Mechanical)



GT7 mechanical drawing (all dimensions in mm).

### Main Dimensions

- Width: 196 mm
- Height: 123 mm
- Body depth: 19 mm
- Mounting thread: 4 x M4 - 6H DEPTH 5

### Installation Notes

- Leave enough room for connector and rear wiring.
- Use anti-vibration mounting where required.
- Ensure proper chassis grounding.

## Recovery Note

If the display freezes after an update or file upload (black screen, no response), on versions from **v1.1.1.1** you can short **Pin 3** to **GND** for more than **30 seconds**. This erases flash memory. After removing Pin 3 from GND, the message **PLEASE UPLOAD DISPLAY DATA** will appear.

## 1) 10 LED Indicators (Color & Brightness)

The **10 LED** indicators are app-configurable: you can set **color** and **brightness** per indicator.

### 2) Power & GND (from pinout)

- **Pin 26:** +12V in (main power input, with inline fuse as shown in pinout)
- **GND:** see GND pins in the pinout (e.g. Pin 4, Pin 21, Pin 25)

### 3) CAN (from pinout)

- **Pin 1:** CAN\_L (CAN Low)
- **Pin 2:** CAN\_H (CAN High)

### 4) Digital Inputs (DIG1..DIG6)

- **Pin 8:** DIG1 (Digital Input 1)
- **Pin 9:** DIG2 (Digital Input 2)
- **Pin 10:** DIG3 (Digital Input 3)
- **Pin 11:** DIG4 (Digital Input 4)
- **Pin 12:** DIG5 (Digital Input 5)
- **Pin 13:** DIG6 (Digital Input 6)

**Note:** Digital inputs are triggered from **3.3V to 14V**.

### 5) Analog Inputs (AN1..AN8)

**Note:** Analog inputs operate in the **0-5V** range.

- **Pin 15:** AN1 (Analog Input 1)
- **Pin 16:** AN2 (Analog Input 2)
- **Pin 17:** AN3 (Analog Input 3)
- **Pin 18:** AN4 (Analog Input 4)
- **Pin 20:** AN5 (Analog Input 5)
- **Pin 21:** AN6 (Analog Input 6)
- **Pin 22:** AN7 (Analog Input 7)
- **Pin 23:** AN8 (Analog Input 8)

### 6) Outputs (OUT1/OUT2, A & B)

- **OUT1:** Output 1A and Output 1B
- **OUT2:** Output 2A and Output 2B

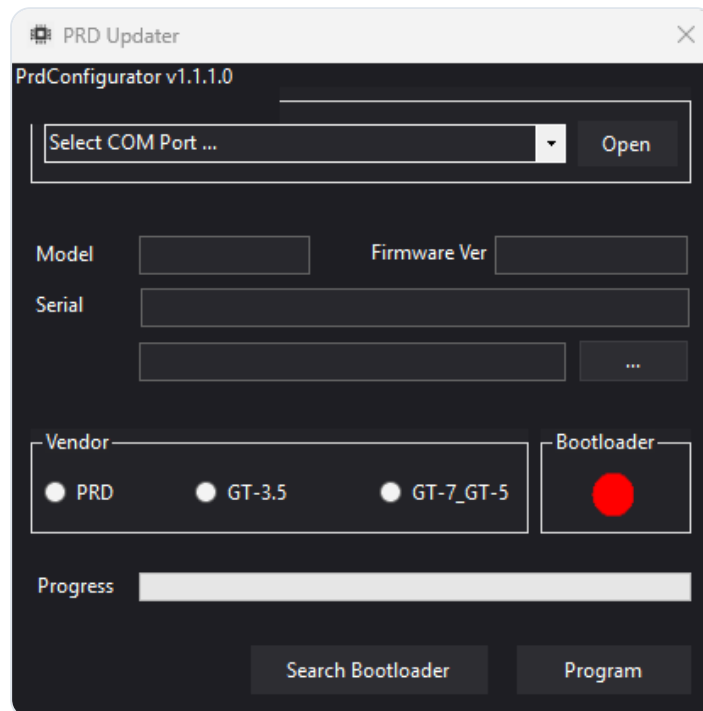
**Note:** Outputs operate up to **1A**.

Used for relay/indicator control according to app settings.

## Firmware Update

Firmware update is done through **Prd Configurator**. Click **Board Firmware Update**, select your **GT** display, and load firmware.

- After selecting the correct **COM** port and loading the **.bin** file, click **Program**.
- If upload starts, the procedure is correct.
- If the device is in **boot mode** and not detected, click **Search Bootloader**.
- When detected, the indicator turns **green**, then continue with **Program**.



Firmware update window in Prd Configurator.