

TPC-8100TR

10.4" EN50155 Railway Panel Computer

NEW



Features

- 10.4" SVGA 800x600 with 400 nits LED LCD display
- Fanless with Dual core 1.6 GHz processor
- 5H Hardness resistive touch
- Alternative keypad control in front bezel
- Mother board / Daughter board with coating for weather proof
- All around IP65 with waterproof M12 connector
- Optical bonding for weather proofing
- Ruggedized enclosure with Die-cast Aluminium alloy
- Wide operating temperature: -30 ~ 70°C
- EN50155 & EN45545 Compliance for railway application

Introduction

Advantech's HMI TPC-8100TR for transportation is used to keep the train driver informed about status of the train's functions. Its design allows it to be deployed in environments with an extended temperature range (-30 to +70°C) and it also complies with the EMC, shock and vibration test requirements of European standard EN50155 and EN45545 for railway applications.

The TPC-8100TR 10.4" TFT display has a ruggedized touch panel and optical bonding for weather-proofing. All round IP65 and M12 connectors are the perfect choice for Human Machine Interfaces (HMI) in railway environments. The internal boards all have Conformal Coating protection for anti-moisture protection. The TPC-8100TR includes a comprehensive feature set with two Ethernet ports, serial interfaces, USB ports, built-in CFast devices.

Railway power module design support 10 ms interruption (EN50155, S2), EMI EN55022 CLASS A filter, Over/Short current protection for its railway application.

Specifications

General

- **Certification** CE, FCC, CCC, EN50155 Compliance
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 345x227x85mm (13.58" x 8.94" x 3.35")
- **Enclosure** Front bezel: Die-cast Aluminium alloy
Back housing: Die-cast Aluminium alloy
- **Mounting** Panel Mount / VESA Mount
- **OS Support** WES 7 & 8 / WES 2009 / Windows CE 7.0 / Linux
- **Power Consumption** 35 W Typical
- **Power Input** 110 V_{DC}, 96 V_{DC}, 72 V_{DC},
48 V_{DC} (option), 37.5 V_{DC} (option),
24 V_{DC} (option)
- **Weight (Net)** 5 kg (11 lbs)

System Hardware

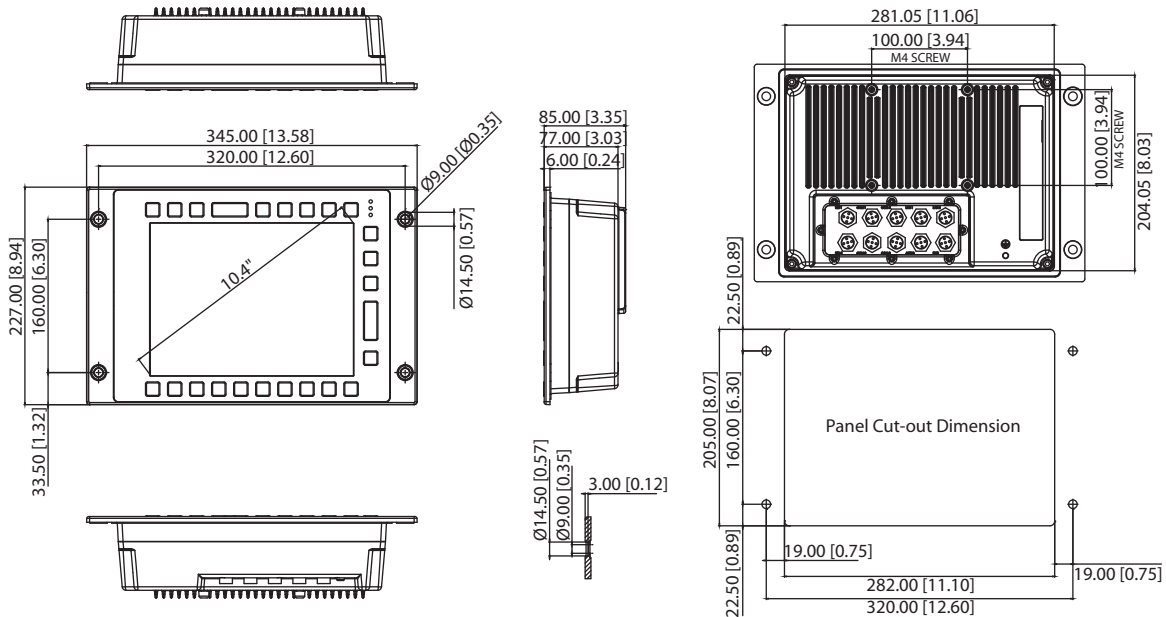
- **CPU** Intel Cedar Trail Dual core processor 1.6G
- **Chipset** Intel Atom N2600
- **Memory** 4GB SO-DIMM DDR3 SDRAM
- **Storage** Built in 16G CFast card
- **Expansion Slot** Full-size Mini-pcie slot x 1 (option)
Full-size Mini-pcie slot x 2 (option)
- **I/O** 2 x RS-232 (connection: M12 A-code, 8-pin male)
2 x 422/485 (with isolation, connection: M12 A-code,
8-pin male)
2 x USB2.0 (connection: M12 A-code, 8-pin female)
2 x 100/1000 Base (connection: M12 A-code, 8-pin
female)
1x Audio (with Internal Buzzer, Line out, connection:
M12 A-code, 8-pin male)
1x Power connector (connection: M12 A-code, 5-pin
male)

LCD Display

- **Display Type** SVGA TFT LED LCD
- **Display Size** 10.4"
- **Max. Resolution** 800x600
- **Max. Colors** 262 K
- **Luminance cd/m²** 400
- **Viewing Angle (H/V°)** 160/140
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 700:1
- **Environment**
 - **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
 - **Ingress Protection** All around IP65
 - **Operating Temperature** -30 ~ 70°C (-22 ~ 158°F)
 - **Storage Temperature** -30 ~ 70°C (-22 ~ 158°F)
 - **Vibration Protection** IEC 61373 Railway— Shock and Vibration

Dimensions

Unit: mm



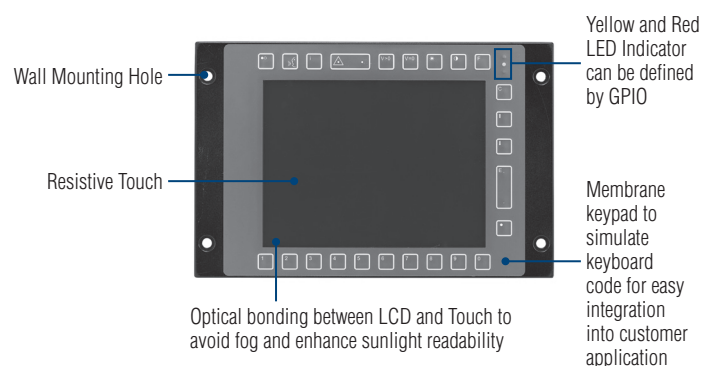
Ordering Information

- **TPC-8100TR-N3AE** 10.5" SVGA Touch Panel PC

Accessories

- **PWR-247-BE** 63W DC 24V/2.62A Output Power Supply
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1700000596** Power Cable China/Australia Plug 1.8 M
- **EWM-C109F6G1E** 6-band HSPA Cellular Module, SIM holder+GPS
- **1750006432** GPS antenna 5000mm AG1575-0250SM-UL
- **1750005865** GSM Antenna L=10.9cm 500hm AN8921F-5701SM
- **TPC-8100TR-MOKE** (9 x M12 Connectors for TPC-8100TR)
- **TPC-8100TR-MCKE** (9 x M12 Cables supporting standard I/O connector for TPC-8100TR)

Front View



Rear View

