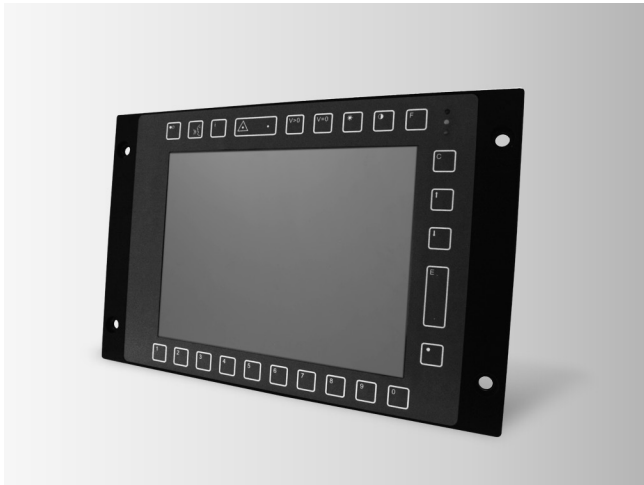# TPC-8100TR

10.4" EN50155 Railway Panel Computer

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

CCC CE FCC

Introduction

The TPC-8100TR is designed for railway applications with EN50155 compliance. The TPC-8100TR includes an all around IP65 waterproof design with rugged die-cast mechanical front and rear cover.En50155 compliance power module support wide DC voltage input and 10 ms hold up time (EN50155/S2).

Specifications

General

- **Certifications** — CE,FCC,CCC,EN50155 Compliance
- **Cooling System** — Fanless design
- **Dimensions (W x H x D)** 345x227x85mm (13.6"x8.9"x3.4")
- **Enclosure** — Front bezel: Die-cast Aluminium alloy
  Back housing: Die-cast Aluminium alloy
- **Mounting** — Panel Mount / VESA Mount
- **OS Support** — WES 7/ WES 2009 / Windows CE 7.0 / Linux
- **Power Consumption** — 35 W Typical
- **Power Input** — 110 V_{DC}
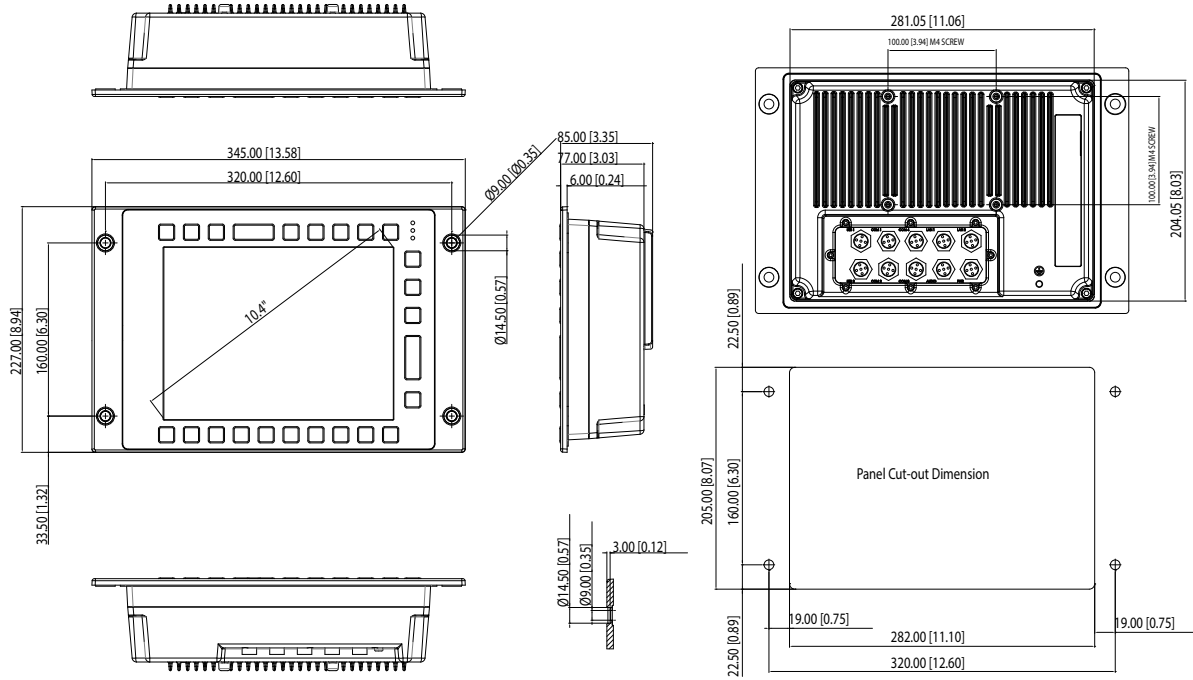- **Weight (Net)** — 5 kg (11 lbs)

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
- **I/O** — 2 x RS-232, 2 x422/485(with isolation),M12
  2 x USB2.0 (Host), M12
  2 x 100/1000 Base, M12
  Ext Buzzer (+,-), Line out,Line out, Mic in, M12
  1x Power input, M16

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

345.00 [13.58]
320.00 [12.60]
Ø9.00 [00.35]
85.00 [3.35]
77.00 [3.03]
6.00 [0.24]
Ø14.50 [0.57]
10.4"
227.00 [8.94]
160.00 [6.30]
33.50 [1.32]

281.05 [11.06]
100.00 [3.94] M4 SCREW
100.00 [3.94] M4 SCREW
204.05 [8.03]
22.50 [0.89]

Panel Cut-out Dimension
205.00 [8.07]
160.00 [6.30]
19.00 [0.75]
282.00 [11.10]
19.00 [0.75]
320.00 [12.60]
22.50 [0.89]
Ø14.50 [0.57]
Ø9.00 [0.35]
3.00 [0.12]

Ordering Information

- **TPC-8100TR-N3AE**　10.4" EN50155 Panel PC,4GB

Rear View

a
b
c
d
e

a. USB 2.0 x2　　d. Power x1
b. COM x 4　　e. Audio x1
c. LAN x2
Note: Wi-Fi/GPS/GSM (optional by request)