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 Compliance for railway application

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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 EN 50155 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 (13.6"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 & 8/ 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

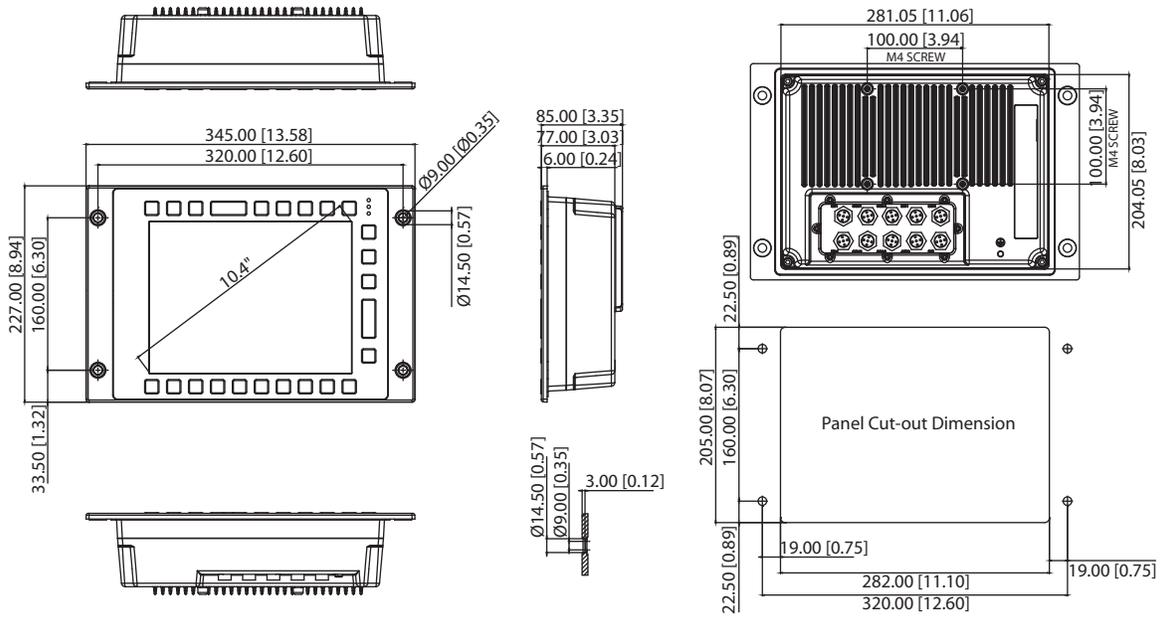|	
CPU	Intel Cedar Trail Dual core processor 1.6G
Chipset	Intel Atom N2600
Memory	4GB SO-DIMM DDR3 SDRAM
Storage	Built in 16G CFast card
I/O	2 x RS-232 (connection: M12 A-code, 8-pin male)
	2 x422/485 (with isolation, connection: M12 A-code, 8-pin male)
	2 x USB2.0 (connection: M12 A-code, 8-pin female)
	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

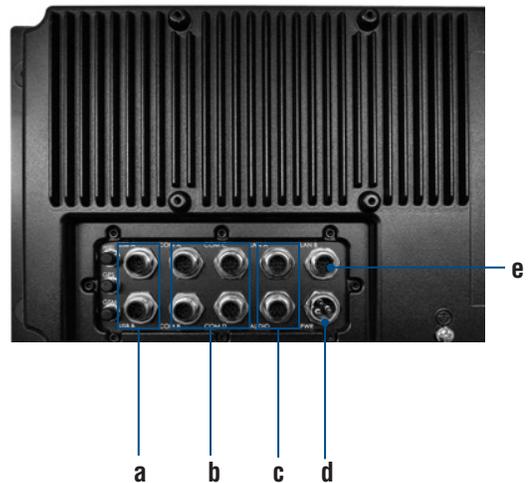|	
Display Type	SVGA TFT LED LCD
Display Size	10.4"
Max. Resolution	800x600
Max. Colors	262 K
Luminance cd/m²	400
Viewing Angle (H/V°)	160/140
Backlight Life	50,000 hrs
Contrast Ratio	700:1
Environment Humidity	10 ~ 95% RH @ 40°C, non-condensing
Ingress Protection	All around IP65
Operating Temperature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

Ordering Information

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

Dimensions

Unit: mm

345.00 [13.58]
320.00 [12.60]
Ø9.00 [Ø0.35]
10.4"
227.00 [8.94]
160.00 [6.30]
Ø14.50 [0.57]
33.50 [1.32]

85.00 [3.35]
77.00 [3.03]
6.00 [0.24]

Ø14.50 [0.57]
Ø9.00 [0.35]
3.00 [0.12]

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

205.00 [8.07]
160.00 [6.30]

Panel Cut-out Dimension

22.50 [0.89]
19.00 [0.75]
282.00 [11.10]
320.00 [12.60]
19.00 [0.75]

Rear View

a. USB 2.0 x2
b. COM x 4
c. LAN x2

d. Power x1
e. Audio x1

Note: GPS/GSM (available on request)