

TVP-110



Intel® Celeron™ Processor J1900, 10.4" industrial-grade projective multi-touch capacitive screen, M12 interface connectors



A B C D E F
A: LAN1/2 B: COM1/2 C: DIO D: USB E: Power F: Audio

Introduction

Darveen's TVP-110 vehicle computer for railway electrification is a fanless human-machine interface (HMI) equipped with a 10.4-inch display with a projective capacitive touchscreen aimed at railway applications. The panel's small flat design saves space for easy installation in driver cabins. The configuration flexibility allows the system to be adjusted for specific applications and train models. Designed to withstand operation in harsh environments, TVP-110/120 supports a wide operating temperature range (-40 ~ 70 °C) and is compliant with EN 50155 railway regulations.

Features

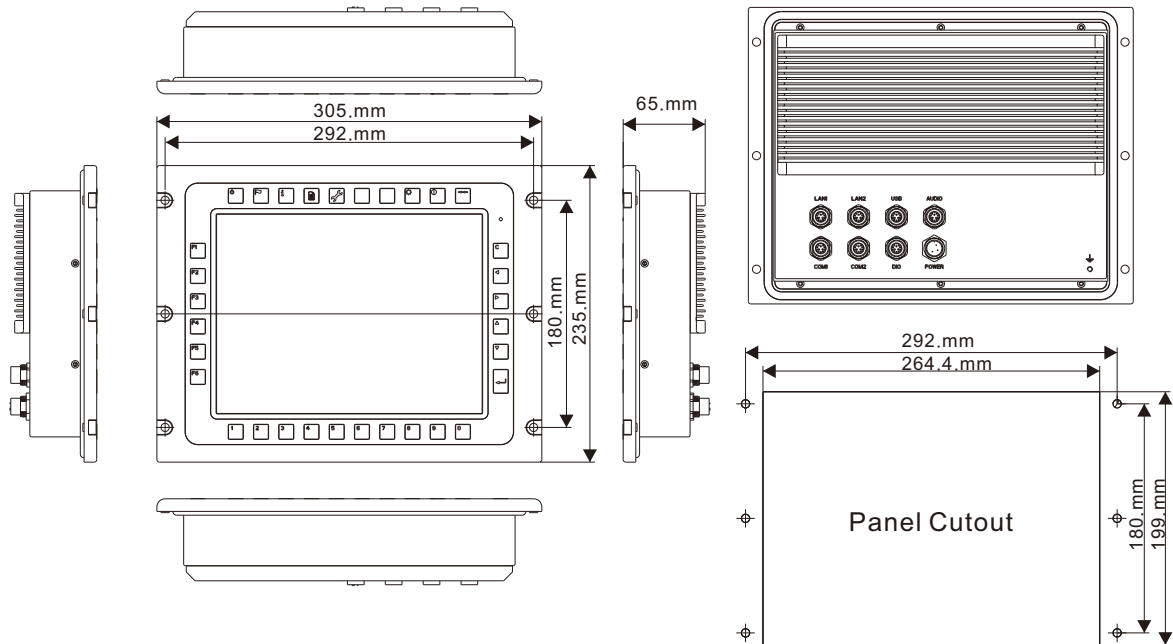
- Intel® Celeron™ J1900 CPU (2M Cache, 2.00 GHz)
- 10.4" industrial-grade projective multi-touch capacitive screen
- M12 interface connectors
- IP65-rated front panel and fanless design
- -40~70 °C temperature range
- 24/48/72/110Vdc (±40%) power input
- Keyboard layout compliant with UIC 612-01
- Optional Expansion WiFi, Bluetooth, LTE, GPS, CAN

Applications

- Rail train display and control panel



Dimensions



Specifications

System

CPU	Intel® Quad-Core Celeron J1900 (2.0GHz)
Memory	1 x SO-DIMM DDR3L-1333/1600 (up to 8GB)
Storage	1 x Full-size Mini-PCIe for mSATA SSD
Operating System	Windows 10 IoT Enterprise Windows Embedded Standard 7 Linux

Display

Size	10.4-inch
Resolution	1024 x 768
Brightness	500 cd/m ²
Contrast Ratio	1000:1
LED Lifetime	50000 hrs

Touchscreen

Type	Projective multi-touch capacitive screen
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Keypad

Keys	32 keys (See the manual for the definition)
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I/O Connectors

Serial Port	2 x RS-422/485, 2500Vdc isolation
USB Port	2 x USB2.0
Ethernet	2 x GbE LAN, 2500Vdc isolation
DIO	4 in & 2 out, support 3.3V output, 2500Vdc isolation
Audio	1 x Line-out 1 x Mic-in
Power	1 x DC-in

Power Specification

Power Input	DC 110V (± 40% , Default, optional 24/48/72V)
Consumption	28W

Environment

Operating Temperature	-40~70°C
Relative Humidity	5%-90%, @ 40°C (non-condensing)
IP protection	Front panel meet IP65
Vibration	IEC 61373
Certifications	CE, FCC, EN50155:2017

Physical Characteristics

Mounting Mode	Panel-mount
Dimension (W x L x H)	305 x 235 x 65 mm
Weight	3.2Kg

Packing List

1 x TVP-110
1 x Certificate
1 x Warranty Cardm