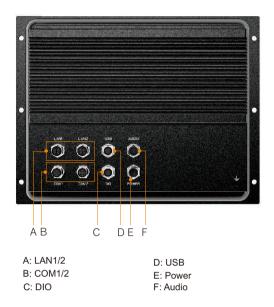
# TVP-110

Intel® Celeron® Processor J1900,10.4" Industrial touch panel computer, Full M12 vehicle terminal for rail train





#### Introduction

Darveen's TVP-110/120 series touch panel PC is a fanless human machine interface (HMI) equipped with a 10.4-inch display with projective capacitive touchscreen aimed at railway applications. The panel's small flat design saves space for easy installation in driver cabins. The configuration flexibly 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 satisfies EN 50155 railway regulations.

#### **Features**

- Intel® Celeron® J1900 CPU (2M Cache, 2.00 GHz)
- 10.4" industrial-grade LCD panel and touch
- M12 Aviation I/O interface
- IP65-rated front panel and fanless design
- Support -40~70°C temperature range
- Support 24/48/72/110Vdc (±40%) power input
- Compliant with UIC 612-01 keyboard layout
- Optional Expansion WiFi, Bluetooth, LTE, GPS, CAN

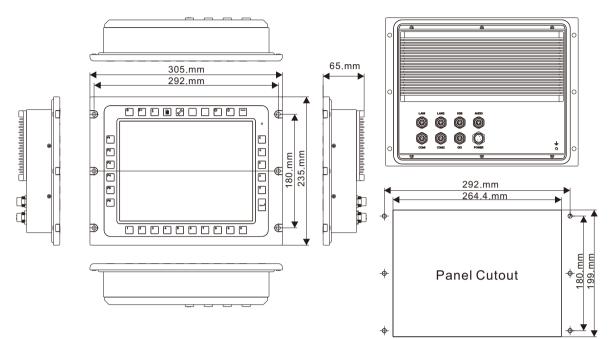
#### **Applications**

Rail train display and control panel



## TVP-110

#### **Dimensions**



### **Specifications**

System		Power Specification	
CPU Memory Storage Operating System	e 1 x Full-size Mini-PCle for mSATA SSD ing System Windows 10 IoT Enterprise Windows Embedded Standard 7 Linux	Power Input Consumption Environment	DC 110V (± 40% , Default, optional 24/48/72V) 28W
Display		Operating Temperature Relative Humidity-40~70°C 5%-90%,@ 40°C (non-condensing)IP protectionFront panel meet IP65VibrationIEC 61373CertificationsCE, FCC, EN50155:2017Physical CharacteristicsMounting Mode Dimension (W x L x H) WeightPanel-mount 305 x 235 x 65 mm 3.2KgPacking List1 x TVP-110 1 x Certificate 1 x Warranty Cardm	
Size Resolution Brightness	10.4-inch 1024 x 768 500 cd/m²		IEC 61373 CE, FCC, EN50155:2017 Panel-mount 305 x 235 x 65 mm 3.2Kg 1 x TVP-110 1 x Certificate
Contrast Ratio LED Lifetime Touchscreen	1000:1 50000 hrs		
Type Keypad	Projective multi-touch capacitive screen		
Keys I/O Connectors	32 keys (See the manual for the definition)		
Serial Port USB Port Ethernet DIO Audio	2 x RS-422/485, 2500Vdc isolation 2 x USB2.0 2 x GbE LAN, 2500Vdc isolation 4 in & 2 out, support 3.3V output, 2500Vdc isolation 1 x Line-out		

Power

1 x Mic-in

1 x DC-in