TVGP-R110

GRONET

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

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

Introduction

Gronet TVGP-R110/120 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, TVGP-R110/120 supports a wide operating temperature range (-40~70 °C), and satisfies EN 50155 railway regulations.
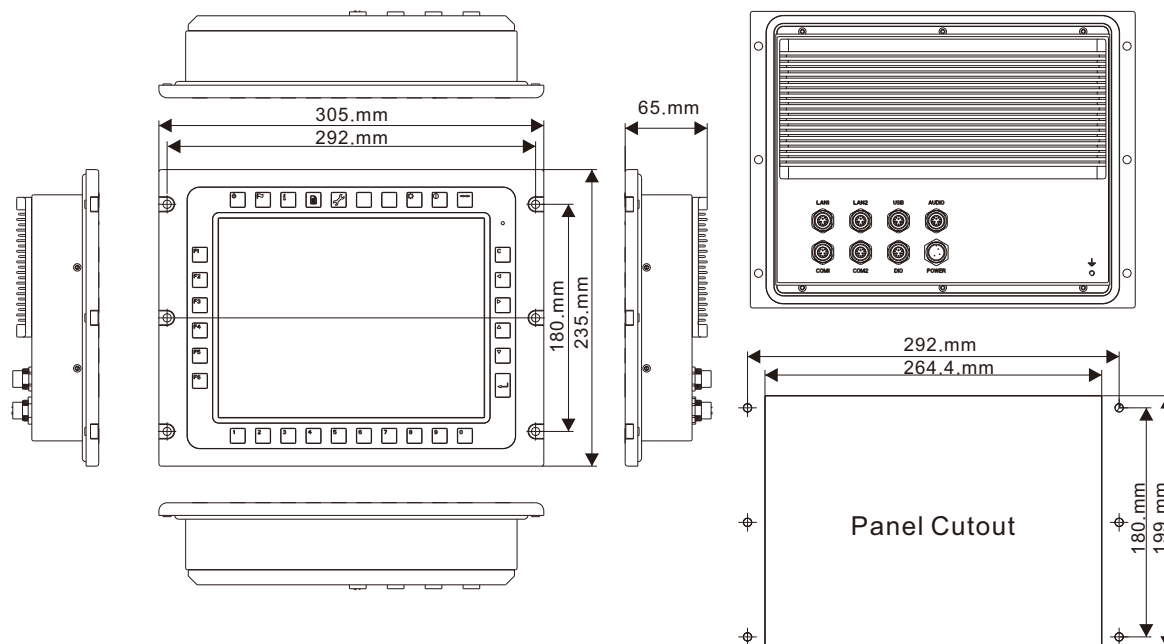
Features

- 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℃ 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

-40~70℃   DC 110V   IP65   Touch   EN50155   CE   FC

TVGP-R110

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Dimensions

305.mm
292.mm
65.mm
180.mm
235.mm

LAN1 LAN2 USB AUDIO
COM1 COM2 DIO POWER

292.mm
264.4.mm

Panel Cutout

180.mm
199.mm

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/m²
Contrast Ratio	1000:1
LED Lifetime	50000 hrs

Touchscreen	
Type	Projective multi-touch capacitive screen

Keypad	
Keys	32 keys (See the manual for the definition)

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 TVGP-R110
1 x Certificate
1 x Warranty Cardm