TEGUAR

PINNACLE TP-4800-12

12.1" Panel PC



Key Highlights

- Latest Fanless Intel® Elkhart Lake Processor
- 12.1" High Brightness Display with Direct Bonded Touch
- PoE, USB-C, Digital IO, HDMI Ports
- Stunning Sleek Form Factor
- Solid Cast-Aluminum Housing
- Windows 11 Pro and IOT

VIEW ONLINE

The 12.1" Panel PC from the TP-4800 Series is designed to be the pinnacle of its kind, sure to exceed your expectations wherever it's needed. Its fanless Celeron processor sits right at the perfect balance of strong performance, great value, and efficient power consumption.

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Technical Specifications

Primary Components

Processor Family	Intel Celeron Elkhart Lake
Processor Model	Celeron J6413
Processor Speed	1.8 GHz
Memory Type	1x DDR4 SO-DIMM
Memory Support	8GB, 16GB, 32GB
Storage Type	1x M.2 2280 NVME SSD slot
Storage Support	128GB-2TB

Power

Input Voltage Range	12-24V DC
Max Power Consumption	38W

Operating Systems

Windows	Windows 10 IoT, Windows 11 IoT, Windows 11 Pro

Thermal & Environmental

Operating Temperature	0°C - 50°C (32°F – 122°F)
Storage Temperature	-20°C - 60°C (-4°F – 140°F)
Cooling Solution	Passive – Fanless with Heatsink

Peripherals & Wireless Connectivity

WiFi	Optional WiFi 6E through Intel AX210
Bluetooth	Optional Bluetooth 5.3

Weight / Dimensions

Weight	2.7 kg (6.0 lbs)
Dimensions	307 x 210 x 49 mm (12.1 x 8.3 x 1.9 in)

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

Display

Screen Size	12.1"
Screen Resolution	1280 x 800 (WXGA)
Screen Ratio	16:10
Brightness	500 nits

Touch Screen

Touch Screen	Projected Capacitive (Multi-touch), Resistive

External I/O Ports

USB	1x USB 3.2 Type-C (DP 1.4A), 2x USB 2.0, 2x USB 3.2
Serial / Com	2x COM
Serial Protocol Detail	COM1 & COM2 Support RS-232/422/485 in DB9 Connector, COM2 is optional and can be replaced by other IO if selected
Ethernet / LAN	2x RJ45 LAN - 1xGbE and 1x2.5GbE, Optional POE PD Class 5 802.3bt
Video Outputs	1x DisplayPort via USB-C Alt Mode, 1x HDMI
Other Ports	IO space reserved for customization. Can be 2nd COM, additional 2 USB 2.0 ports, or 8 pin GPIO/DIO
Audio Ports	1x 3.5mm Audio Line-Out/Mic-In
Power Input Port	3-Pin DC-In (Phoenix Type: -/NC/+), Optional POE, USB Type-C PD Input

Enclosure

Material	Aluminum
IP Rating	IP66 Front Bezel
Color	Black
Control Buttons	Power Button
Mounting Options	Panel Mount, VESA 100 Mount

Certification

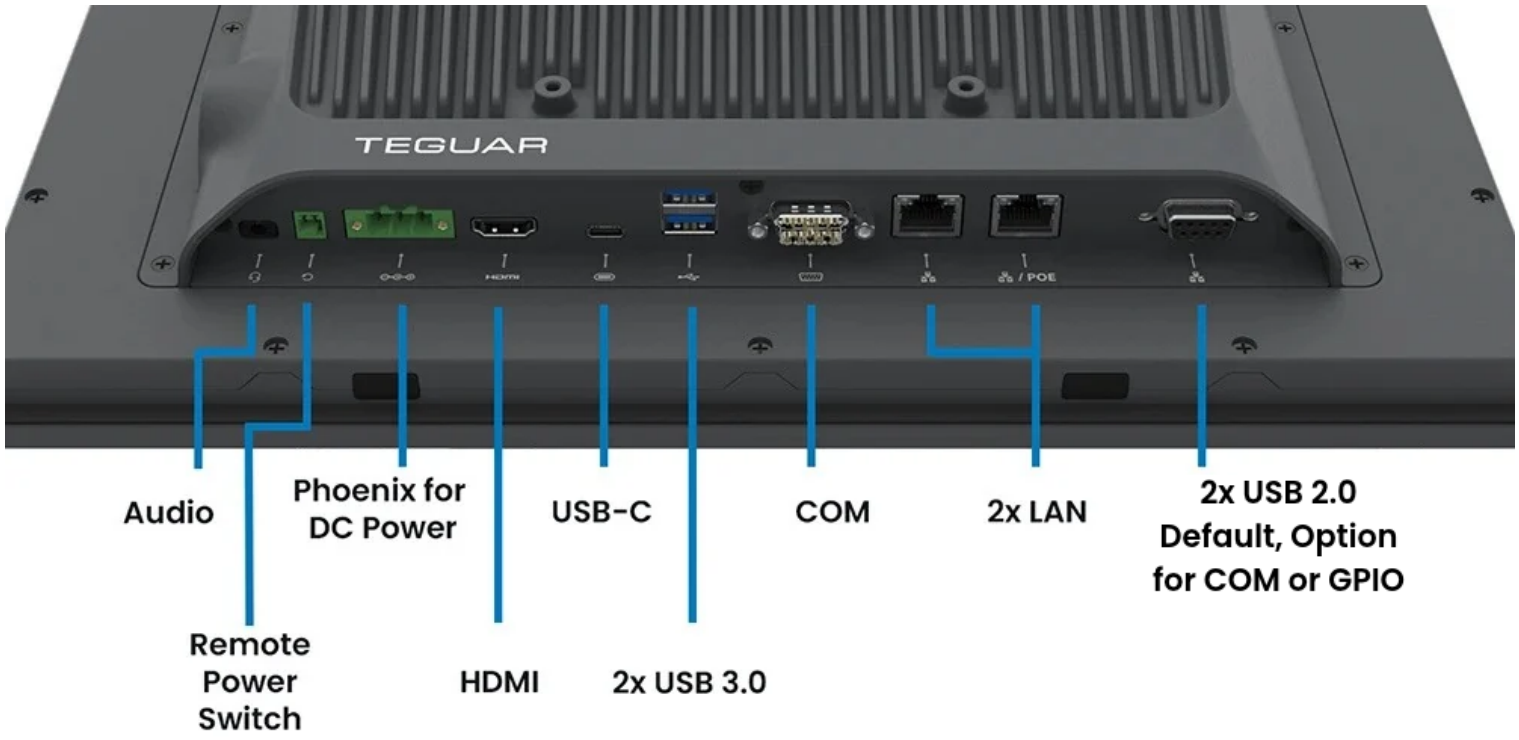
Certifications	CE, FCC Class B, UL 62368

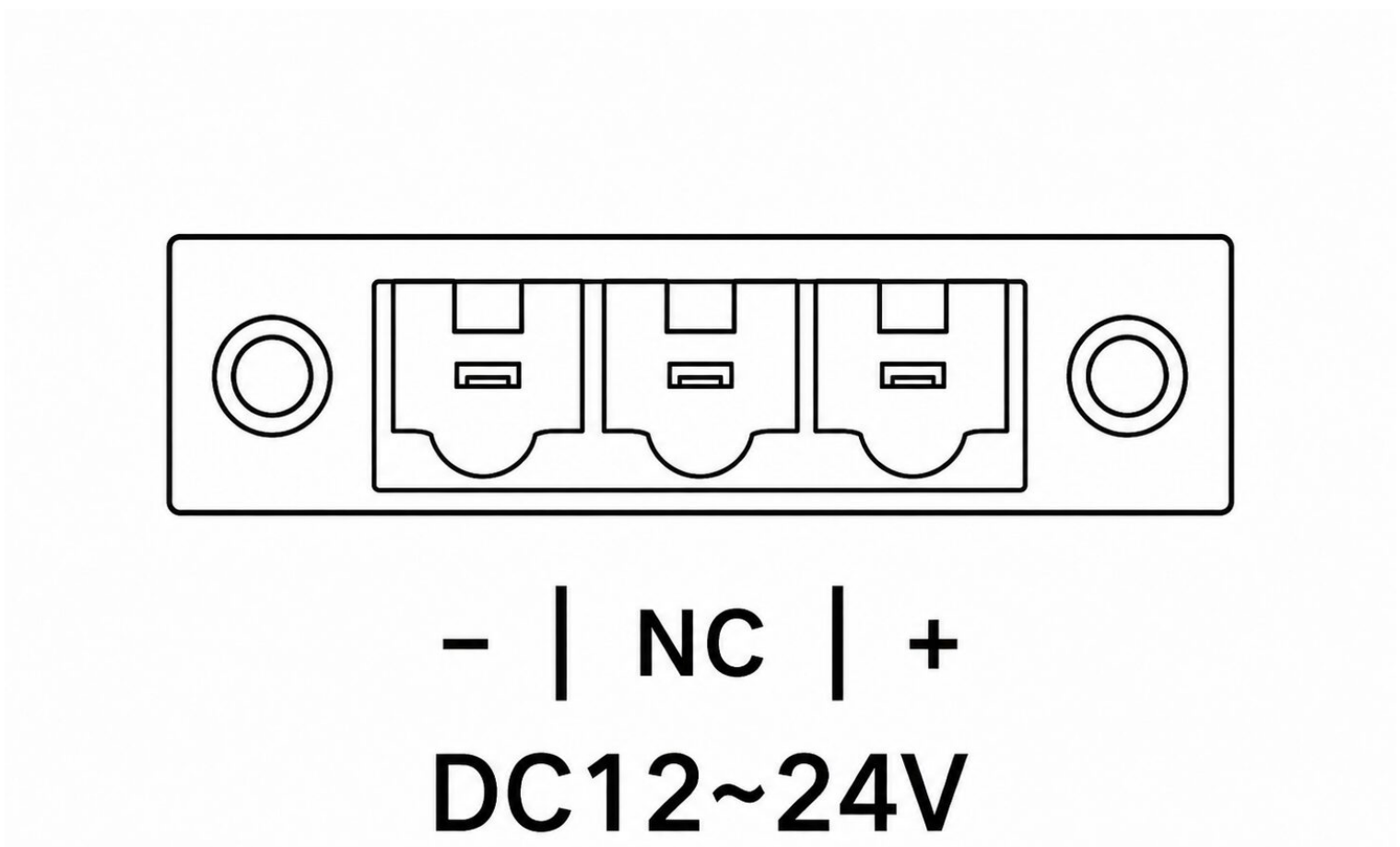
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I/O Diagram Images



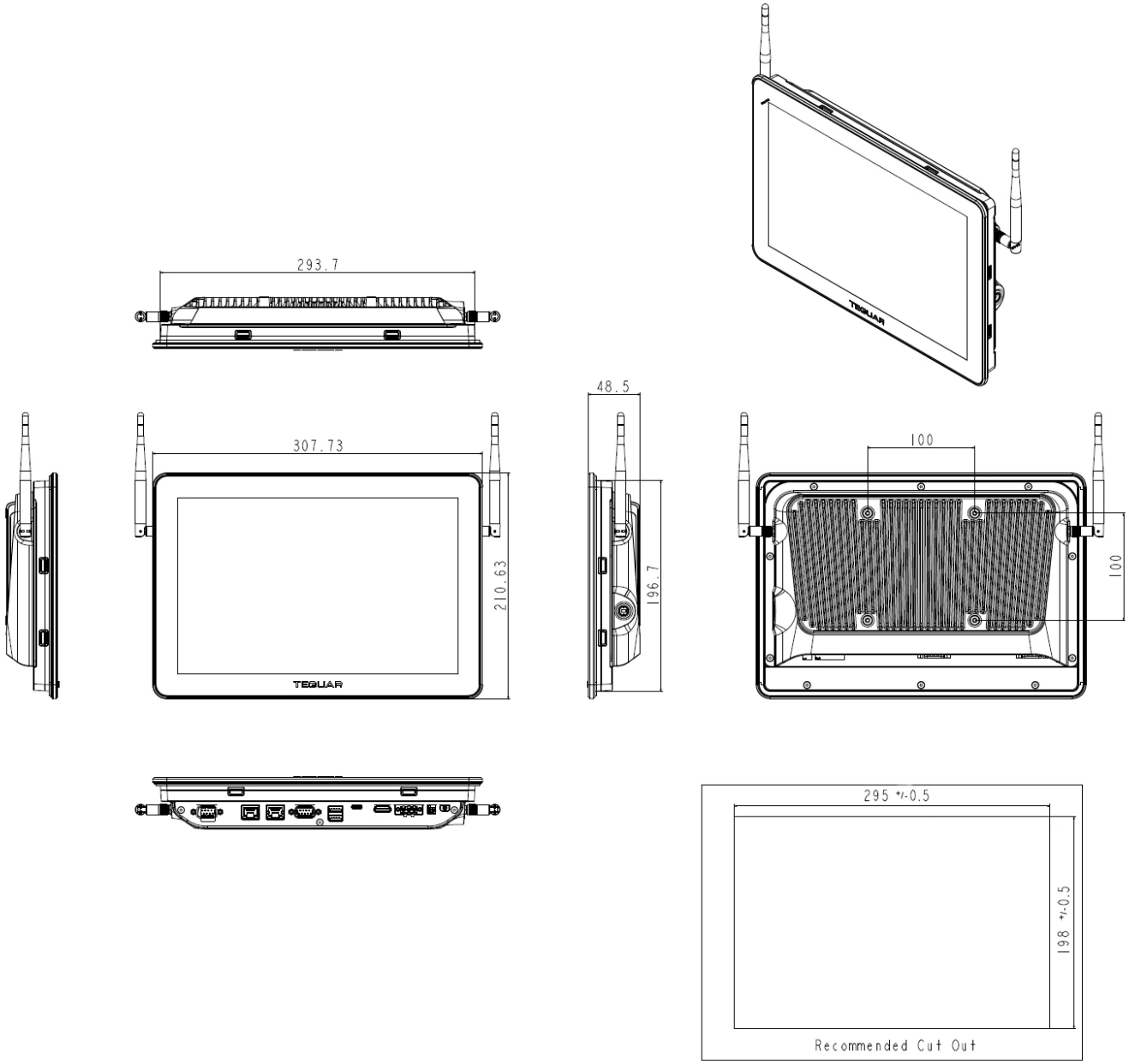


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Tech Diagram Images



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