

PINNACLE TP-4800-12-TM

12.1" ThinManager-Ready Panel PC



THINMANAGER

Key Highlights

- Optimized for ThinManager® thin client deployments
- Fanless Intel® Celeron® processor for reliable, energy-efficient performance
- 12.1" high-brightness display with direct-bonded touchscreen for industrial HMI applications
- Power over Ethernet (PoE) for simplified installation and reduced cabling
- USB-C, HDMI, and Digital I/O for flexible industrial connectivity
- Slim, all-in-one design with rugged cast-aluminum housing
- Available with Windows 11 Pro or Windows 11 IoT Enterprise

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The **TP-4800-TM** is purpose-built as a **ThinManager®-ready panel PC**, delivering reliable thin client performance for industrial HMIs and operator workstations. Featuring a fanless Intel® Celeron® processor, the TP-4800-TM provides the responsive performance and energy efficiency needed for centralized application delivery and seamless ThinManager® sessions. Designed for continuous operation in demanding industrial environments, the TP-4800-TM combines a rugged fanless design with an integrated 12.1-inch display to create a dependable, all-in-one ThinManager® endpoint. Its industrial construction and efficient performance make it an ideal solution for manufacturing floors, control rooms, and other applications where secure, centralized device management and reliable operator access are essential.

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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 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 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

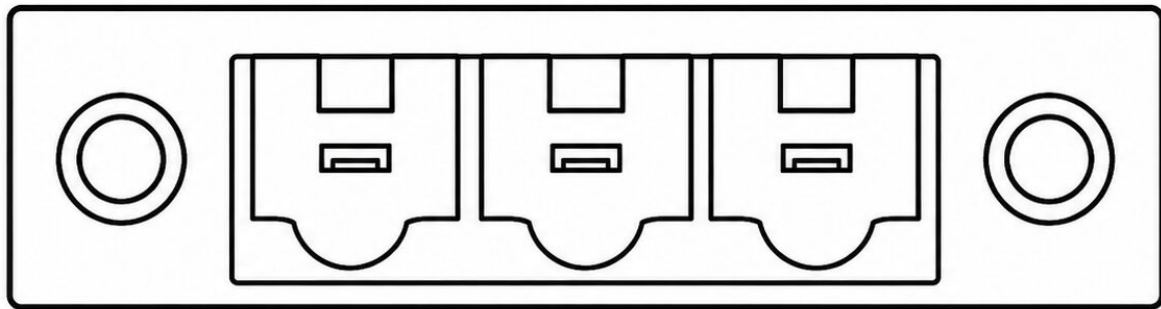
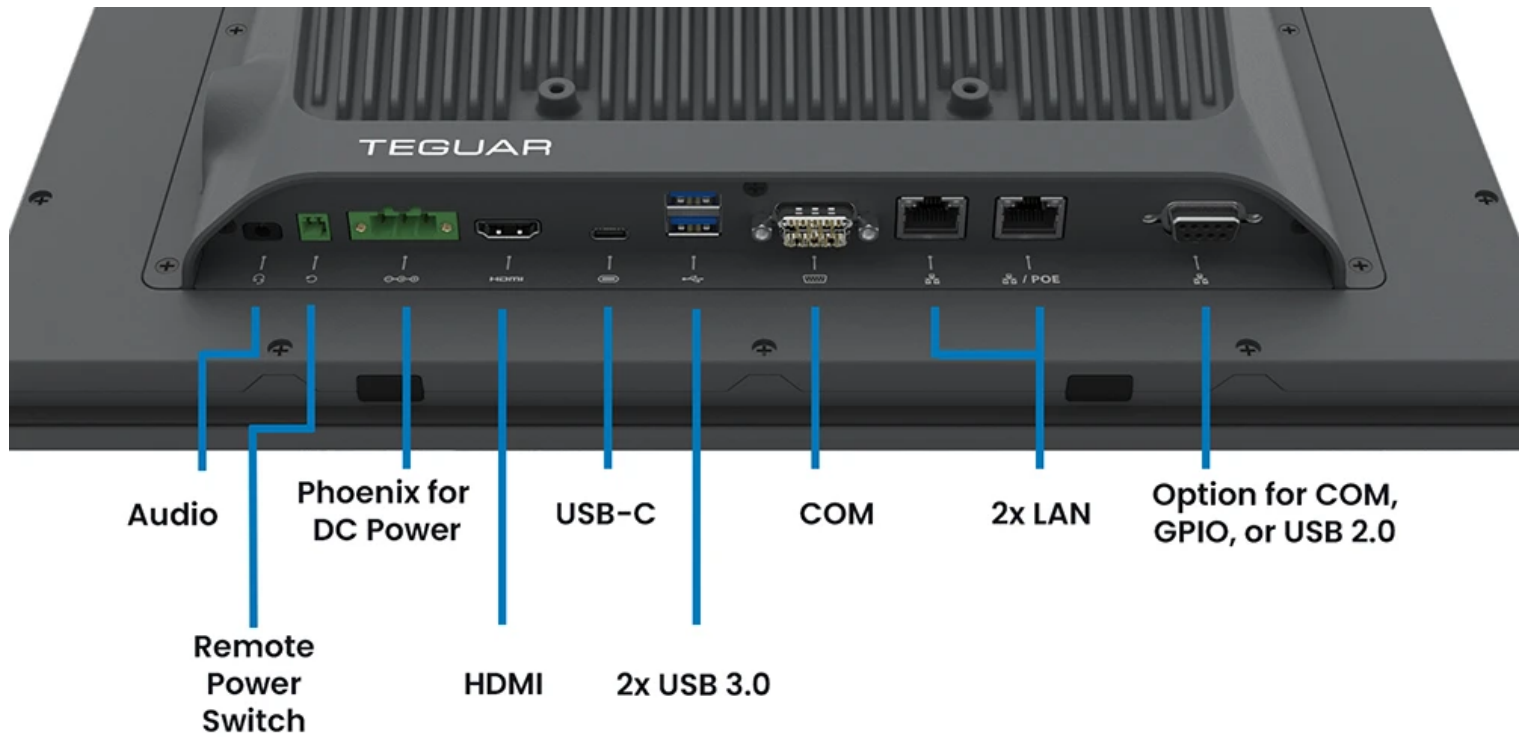
Certification	
Certifications	CE, FCC Class B, UL 62368

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I/O Diagram Images



- | NC | +
DC12~24V

USA

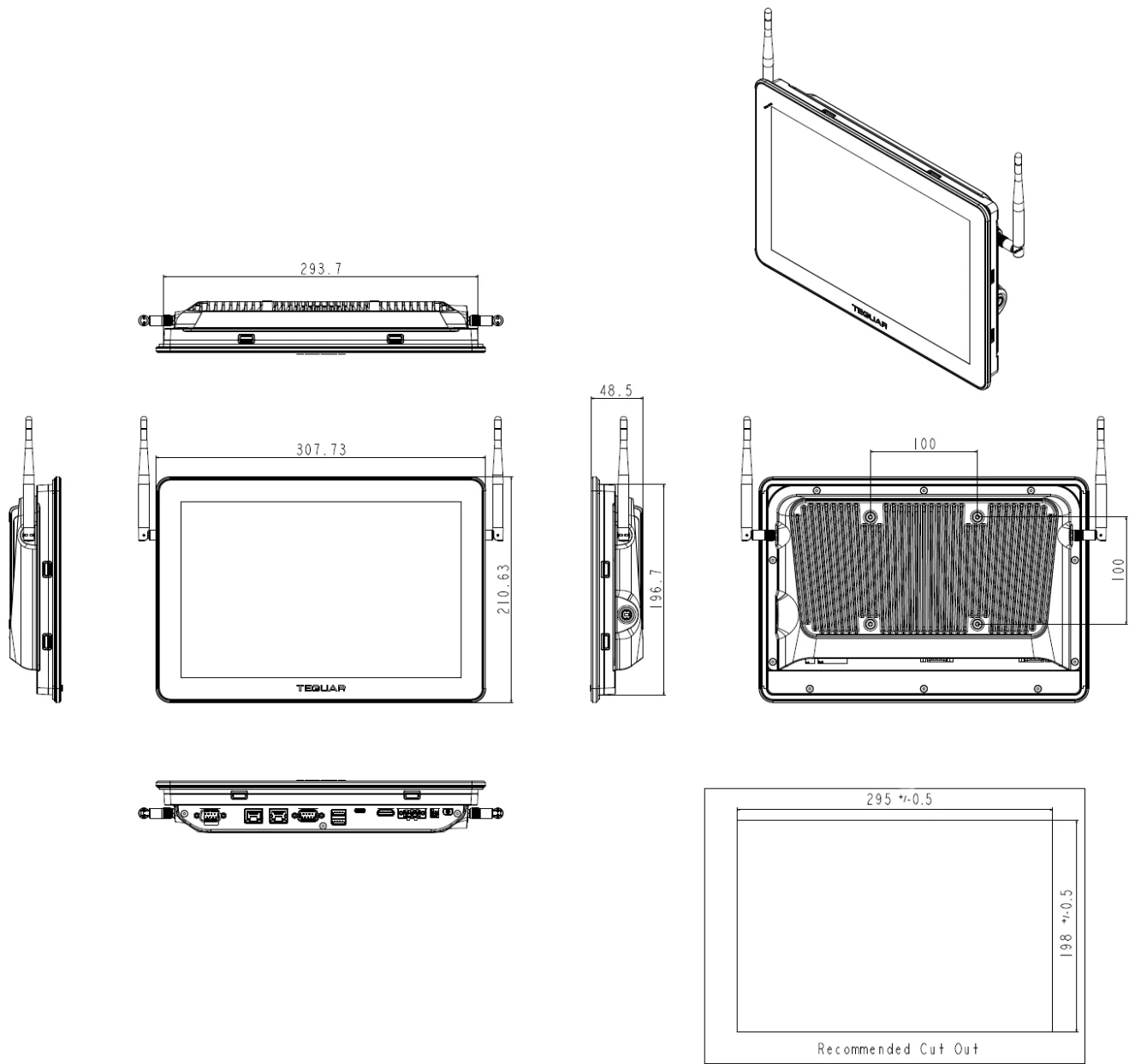
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