TEGUAR

TSP-5645-12

12.1" Panel PC



Key Highlights

- 12.1" LCD Touchscreen
- Intel 8th Gen Core i3/i5 Processor
- Slim and Fanless Design
- IP66/IP69K Stainless Steel Front Bezel
- Windows 11 Capabilites

VIEW ONLINE

The 12" Waterproof Touchscreen Computer, featuring a stainless steel front panel and aluminum back cover, is the perfect solution for demanding environments where exposure to liquids, sprays, or humidity is common. This computer can be easily panel mounted, creating a waterproof solution that can withstand harsh conditions. Powered by an Intel 8th Gen Core i3/i5 CPU and supporting Windows 11, it offers exceptional performance and seamless software integration. This 12" panel PC provides a compact yet powerful computing solution for those seeking ruggedness and reliability in a smaller form factor.

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Technical Specifications

Primary Components

Processor Family	Intel Core I series 8th Generation Whiskey Lake-U
Processor Model	Core i3 8145UE, Core i5-8365UE
Processor Speed	2.3 GHz, Up to 4.1 GHz
Memory Type	1x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB
Storage Type	1x M.2 M Key, PCIe or SATA, 2242 default or 2280
Storage Support	128GB-1TB

Power

Input Voltage Range	9-36V DC
Max Power Consumption	56W
Standard Power Adapter	Optional 12V 5A AC/DC Adapter

Operating Systems

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

Expansion Slots

Internal M.2	1x M.2 for NVME SSD Support

Enclosure

Material	Aluminum, Optional SUS316 Stainless Steel, SUS304 Stainless Steel
IP Rating	IP66 Front Bezel, IP69K Front Bezel
Color	Silver, Stainless Steel
Mounting Options	Panel Mount, VESA 100 Mount
Approved Cleaning Solutions	Acetic Acid (low concentration), Ammonium Nitrate (low concentration), Benzine, Citric Acid (low concentration), Ethanol, Ethylene Glycol Solution (1:1 with water), Hexane, Hydrochloric Acid (low concentration), Iron Chloride Solution, Isooctane, Isopropyl Alcohol, Nitric Acid (low concentration), Paraffin, Perhydrol (30% in water), Phosphoric Acid (low concentration), Propane, Silicone Oil, Sodium Carbonate (low concentration), Sodium Chloride Solution, Sodium Nitrate (low concentration), Sulfuric Acid (low concentration), Triethylene Glycol

Weight / Dimensions

Weight	2.5 kg (5.5 lbs)
Dimensions	331 x 257 x 52 mm mm (13.0 x 10.1 x 2.0 in)

Certification

Certifications	CE, EN 1672-2 Complaint (PCAP Touchscreen Only), FCC Class A

Specifications subject to change.

Display

Screen Size	12.1"
Screen Resolution	1024 x 768 (XGA)
Screen Ratio	4:3
Brightness	450 nits, Optional 1000 nit High Brightness

Touch Screen

Touch Screen	Projected Capacitive, Resistive

External I/O Ports

USB	4x USB 3.0
Serial / Com	2x COM
Serial Protocol Detail	Included Y-Cable provides two DB-9 Com ports: 1x 5-pin RS-232 (COM1) and 1x Configurable 3-Pin RS-232/422/485 (COM2)
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x DisplayPort
Audio Ports	1x Audio Line-Out
Power Input Port	DC-in Jack (Phoenix Type)

Thermal & Environmental

Operating Temperature	0°C ~ 50°C (32°F ~ 122°F (i3/i5)), -20°C ~ 60°C (Optional -4°F ~ 140°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Cooling Solution	Passive – Fanless
Humidity Range	10% ~ 95% Non-condensing
Storage Humidity	10% ~ 90% Non-condensing

Peripherals & Wireless Connectivity

WiFi	Optional 802.11 ac + Bluetooth with External Antennas
Bluetooth	Optional Bluetooth 4.0
Sim Card	1x Nano SIM Card Slot

Warranty

Warranty	Up to 5 Years

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I/O Diagram Images

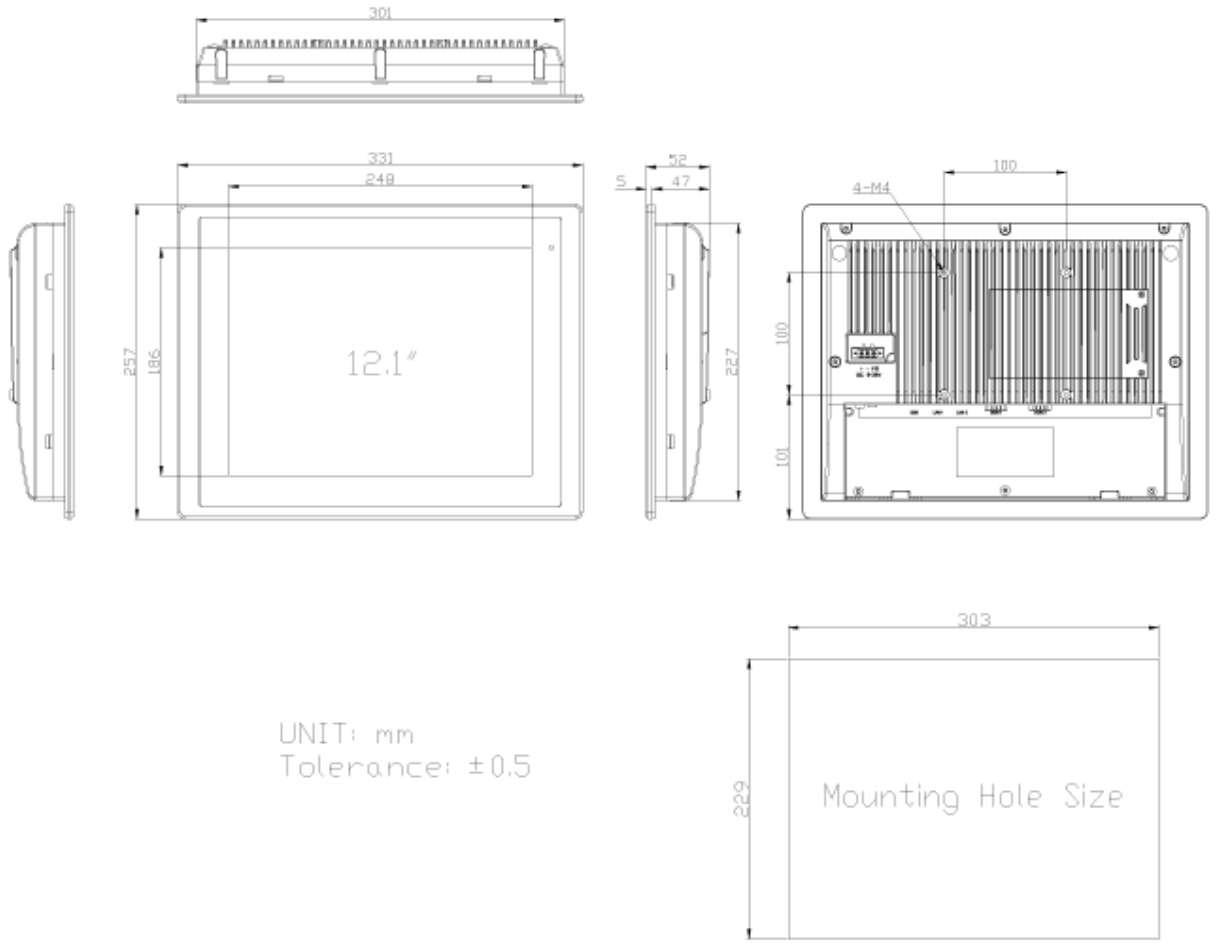


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Tech Diagram Images



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