

# TS-4510-22

## 21.5" IP66 Computer



### Key Highlights

- 21.5" Resistive or Pcap Touchscreen
- Intel Apollo Lake J3455 Processor
- Widescreen 1920 x 1080 HD Display
- IP66 / IP69K and Optional IP67
- Optional 1000 nit Highbright Screen

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The TS-4510-22 has a large 21.5" touchscreen display, for easy readability and data input in your food processing plant or washdown environment. The front bezel is full flush, meaning there are no crevices where debris and dirt can build up. The housing of this computer is fully sealed and made with corrosion-proof stainless steel. This PC is rated IP66 / IP69K, for protection from high-temperature, high-pressure waterjets. You can also configure the PC for IP67, which protects the computer from submersion in water. Other customization options include resistive or Pcap touch and 1000 nit high brightness with optical bonding for better performance in low screen visibility environments.

#### USA

Teguar  
2920 Whitehall Park Drive  
Charlotte, NC 28273  
+1 866-693-3105  
sales@teguar.com

#### EUROPE

Teguar Europe AG  
Churerstrasse 54, CH-8808  
Pfäffikon, Switzerland  
+41 41 561 53 11  
sales.EU@teguar.com

#### ASIA

Teguar Taiwan Ltd.  
Rm. A, 28F-12., No.99, Sec. 1, Xintai 5th Rd.,  
Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)  
+886 2 7751 5319  
sales@teguar.com.tw

# Technical Specifications

## Primary Components

Processor Family	Intel Celeron Apollo Lake
Processor Model	J3455 Quad Core
Processor Speed	1.5 GHz
Memory Type	1x DDR3L SO-DIMM
Memory Support	4GB, 8GB
Storage Type	1x 2.5" SATA Drive Bay for SSD/HDD, M.2
Storage Support	32GB-1TB

## External I/O Ports

USB	2x M12 8Pin for USB 1/2 and USB 3/4
Serial / Com	2x M12 8-pin for COM
Serial Protocol Detail	1x RS-232, 1x RS-232/422/485
Ethernet / LAN	1x M12 8pin RJ45 Gbe LAN
Power Input Port	M12 type 5-PIN DC-in

## Compatibility

Security Hardware	Optional TPM 2.0
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## Multimedia

Speakers	Optional Speakers
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## Enclosure

Material	Optional SUS316 Stainless Steel, SUS304 Stainless Steel
IP Rating	IP66, IP69K, NEMA 4X, Optional IP67
Color	Stainless Steel
Control Buttons	Power Button
Mounting Options	Table Mount, VESA 100 Mount, Wall Mount
Approved Cleaning Solutions	Acetic Acid (low concentration), Ammonium Nitrate (low concentration), Benzene, 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, 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	12 kg (26.5 lbs)
Dimensions	557 x 58.5 x 348.5 mm (21.9 x 2.3 x 13.7 in)

## Warranty

Warranty	Up to 5 Years
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Specifications subject to change.

## Display

Screen Size	21.5
Screen Resolution	1920 x 1080 (Full HD)
Screen Ratio	16:9
Brightness	250 nits, Optional 1000 nit High Brightness

## Touch Screen

Touch Screen	5 Wire Resistive, Projected Capacitive
Hardness	Resistive: 4H, P-cap: 7H

## Power

Input Voltage Range	9-32V DC
Max Power Consumption	43W
Standard Power Adapter	AC 100-240V / 47 ~ 63Hz, IP68, 60W

## Operating Systems

Windows	Windows 10 IoT, Windows 10 Pro
Linux	Linux (Contact your sales rep for more information)

## Expansion Slots

Internal M.2	1x M.2 Type E
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## Thermal & Environmental

Operating Temperature	0°C - 45°C (32°F - 113°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)
Cooling Solution	Passive - Fanless
Humidity Range	10% - 90% Non-condensing
Storage Humidity	10% - 90% Non-condensing

## Peripherals & Wireless Connectivity

WiFi	Optional WiFi + Bluetooth Flat Antenna Kit
Bluetooth	Optional Bluetooth 4.0
Barcode Scanner	Optional 1D/2D Barcode Scanner

## Certification

Certifications	CE, FCC, VCCI Class B
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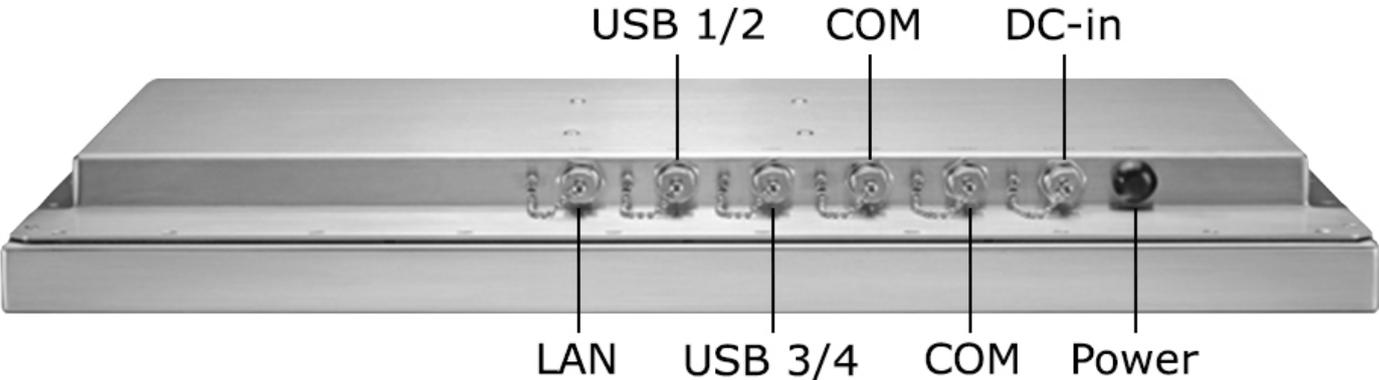
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# I/O Diagram Images



## USA

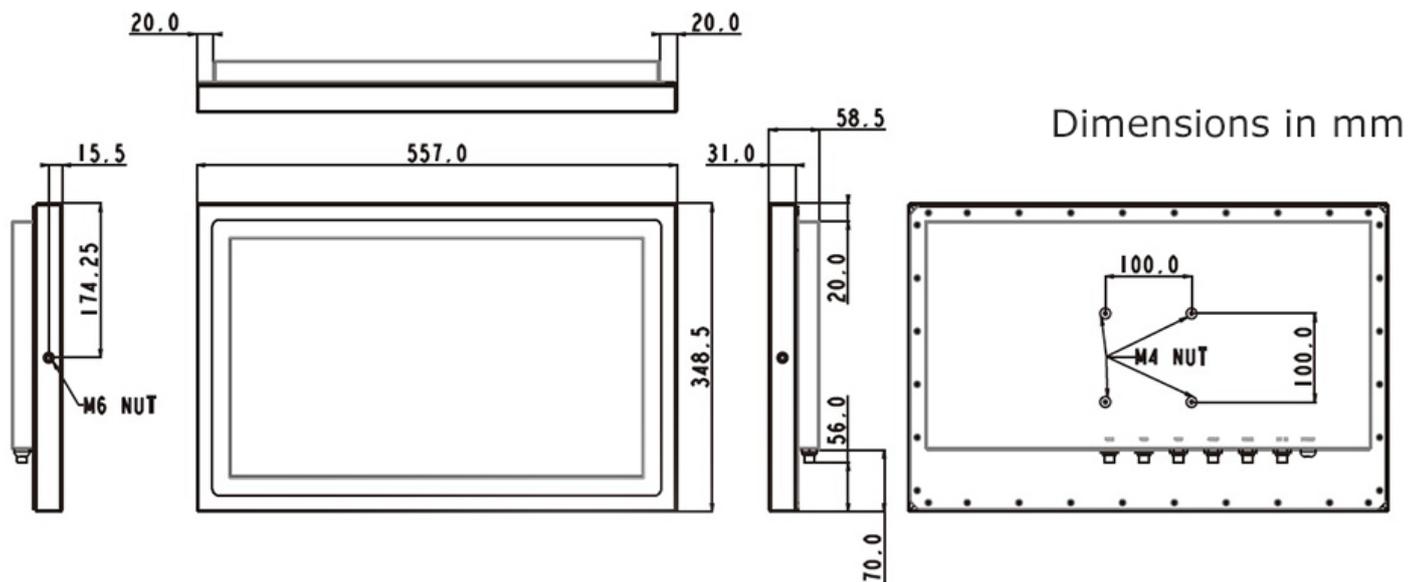
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