TEGUAR

TB-5545-MVS

Machine Vision Box Computer



Key Highlights

- Intel 7th Gen. Core i3/i5/i7 CPU
- Up to 4x Expansion Slots
- 2x 260-pin DDR4 SO-DIMM Memory
- Wide Range Power Input (DC 9~36V)
- DIN Rail or Wall Mount Options
- Wide Operating Temperature (-20~60°C)

VIEW ONLINE

The TB-5545-MVS combines high performance and an abundance of I/Os in a compact, rugged form factor. Measuring only 9 inches wide (222 mm) and with the I/Os conveniently placed on one side, this computer was designed for compact spaces, like an electrical cabinet on a shop floor. It is fanless, housed in aluminum and steel, and can be DIN rail or wall mounted. The TB-5545-MVS can be configured with 2x or 4x PCIe slots, supporting an endless variety of expansion cards, making this computer flexible for industry specific applications, including machine vision, edge computing, and quality control. The TB-5545-MVS is delivers maximum impact in a small form factor. *Read the Product Review from RuggedPCReview >*

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 Core I series 7th Generation Kaby Lake
Processor Model	Core i3-7101TE;Core i5-7500T;Core i7-7700T
Processor Speed	Up to 2.9 GHz Base
Memory Type	2x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB
Storage Type	2x 2.5" SATA Drive Bay for SSD/HDD (easily accessible)
Storage Support	32GB-2TB, Accessible Bays Support RAID 0/1

Power

Input Voltage Range	9-36V DC
Max Power Consumption	88W
Standard Power Adapter	Optional AC/DC Adapter

Compatibility

Security Hardware	TPM 2.0

Multimedia

Microphone	Built-in Microphone

Enclosure

Material	Aluminum, Steel
Color	Black
Control Buttons	Power Button
Mounting Options	DIN Rail Mount, Wall Mount

Weight / Dimensions

Weight	3.1 kg (6.8 lbs)
Dimensions	222 x 190 x 67 mm (8.7 x 7.5 x 2.6 in)

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

External I/O Ports

USB	2x USB 2.0, 4x USB 3.0
Serial / Com	4x COM
Serial Protocol Detail	1x RS-232/422/485, 2x RS-232, 1x RS-422/485
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x HDMI
Other Ports	1x GPIO 8-bit digital I/O (4x DI, 4x DO)
Audio Ports	1x Audio Line-Out
Power Input Port	3-Pin DC-In (Phoenix Type)

Operating Systems

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

Expansion Slots

Video Card Support	PCIe x16 slot can support graphics cards up to 180MM long and 130 mm wide, max power draw 75W through PCIe connector
Other	2 or 4 Expansion Slots with PCIe x16 and PCIe x4 support

Thermal & Environmental

Operating Temperature	-20°C ~ 60°C ~ -20°C ~ 50°C (-4°F ~ 140°F (i3/i5 CPU), -4°F ~ 122°F (i7 CPU))
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Cooling Solution	Passive – Fanless with Heatsink
Humidity Range	10% ~ 90% Non-condensing

Peripherals & Wireless Connectivity

Bluetooth	Optional Bluetooth 4.2
Mobile Network 4G LTE	Optional

Certification

Certifications	CE, FCC Class A

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

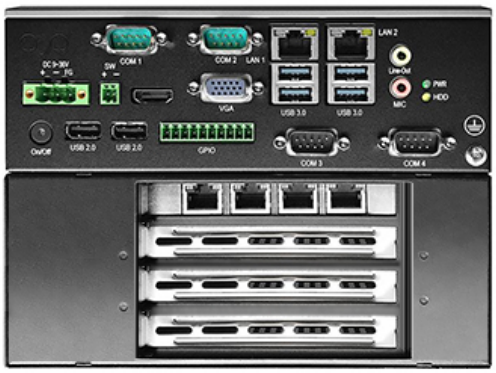
ASIA
Teguar Taiwan Ltd.
Rm. A, 28F-12., No.99, Sec. 1, Xintai 5th Rd.,
Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
+886 2 7751 5319
sales@teguar.com.tw

I/O Diagram Images







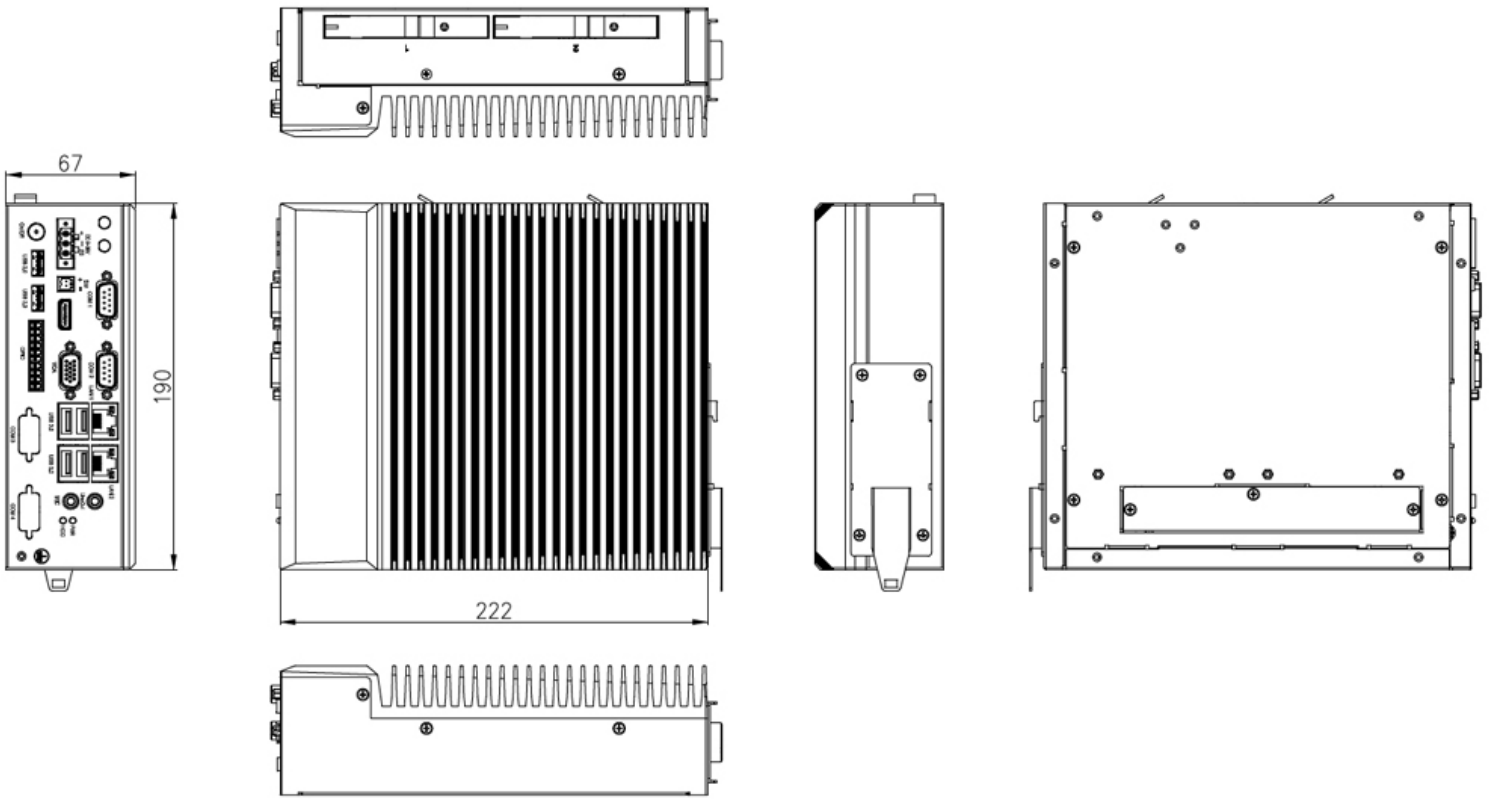


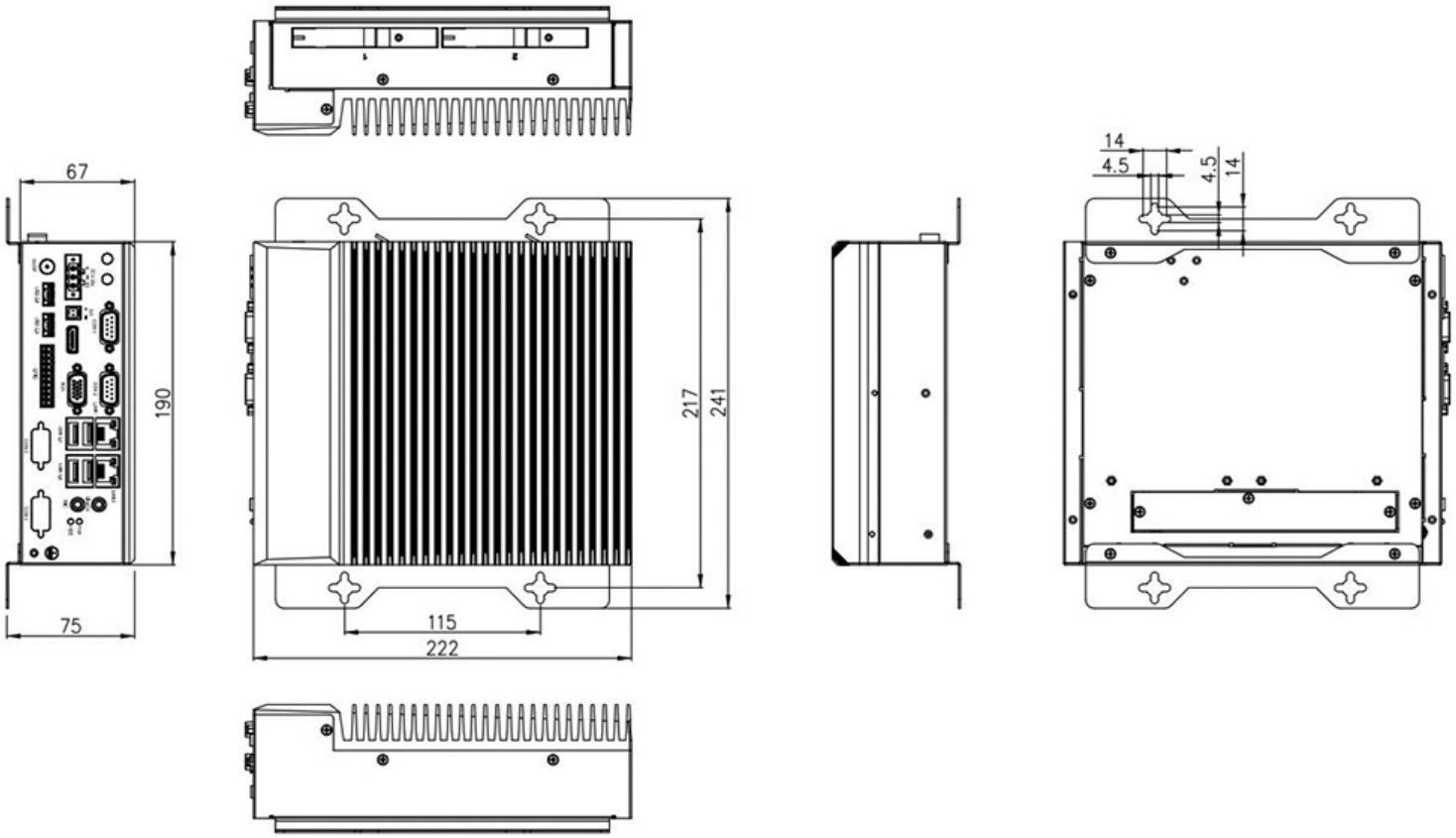
USA
Teguar
2920 Whitehall Park Drive
Charlotte, NC 28273
+1 866-693-3105
sales@teguar.com

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

Tech Diagram Images





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