TEGUAR

TB-6185

Industrial Edge Computer



Key Highlights

- Intel® 12th Generation Celeron N97 processor, or upgrade to Core i3
- Windows 11 capability
- Many IOs in a compact, fanless build
- DDR5 Memory
- 2.5Gb Ethernet in two LAN ports
- Extended desktop capability with dual display ports

VIEW ONLINE

The TB-6185 Industrial Edge Computer is ready to be the centerpiece of your industrial systems, with all the features to connect, control, and display. Enjoy fast processing speeds with Intel's 12th Generation Alder Lake processor, with your choice of Celeron N97 or Core i3 to suit your specific needs. The PC's speed and capacity are further enhanced with the latest DDR5 synchronous dynamic RAM. This embedded PC has made the most of its surface area to include every IO you'll need in an endpoint, including DC in and out, two display ports, *ten* USB ports, and more. With all of these features in a sturdy fanless enclosure, you can rely on the industrial edge computer to be the cornerstone of any industrial application.

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Technical Specifications

Primary Components

Processor Family	Intel Celeron or Core I series 12th Generation Alder Lake N
Processor Model	Celeron N97, Core i3-N305
Processor Speed	1.8 GHz, 2.0 GHz, Up to 3.6 GHz, Up to 3.8 GHz
Memory Type	1x DDR5 SO-DIMM
Memory Support	8GB, 16GB, 32GB, 64GB
Storage Type	1x 2.5" SATA Drive Bay for SSD/HDD, 1x M.2 2280 NVME SSD slot
Storage Support	M.2 and 2.5": 128GB - 1TB

Power

Input Voltage Range	9-36V DC
Max Power Consumption	65W
Standard Power Adapter	DC 19V/65W adapter, US AC power cord

Expansion Slots

Internal M.2	1x M.2 2230 Key E (for WiFi expansion option), 1x M.2 3042/3052 Key B (For 4G/5G Cellular expansion option)

Enclosure

Color	Black
Led Indicator Light	Power
Control Buttons	Power Switch

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

External I/O Ports

USB	2x USB 3.2 Gen 1, 2x USB 3.2 Gen 2
Serial / Com	2x COM
Serial Protocol Detail	COM1: RS-232/422/485, 0V/5V/12V, COM2: RS-232
Ethernet / LAN	2x RJ45 2.5 GbE LAN
Video Outputs	1x DisplayPort, 1x HDMI
Audio Ports	1x 3.5mm Audio Line-Out, 1x 3.5mm Microphone Jack, 1x Audio Line-Out
Power Input Port	DC-in Jack (Phoenix Type), Locking Type

Operating Systems

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

Compatibility

Security Hardware	TPM 2.0

Thermal & Environmental

Operating Temperature	-10°C - 55°C (14°F – 131°F (With WT devices))
Humidity Range	10% – 90% Non-condensing
Storage Humidity	10% – 90% Non-condensing

Weight / Dimensions

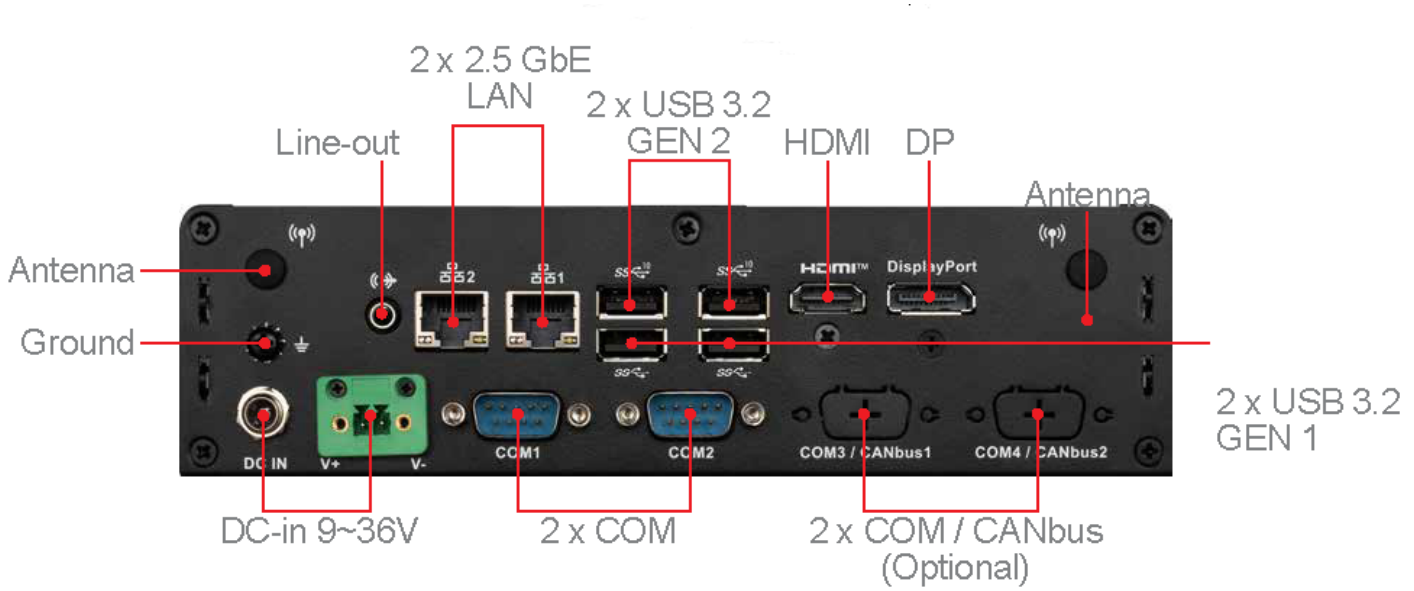
Weight	1.38 kg (3.0 lbs)
Dimensions	200 x 55 x 150 mm (7.9 x 2.2 x 5.9 in)

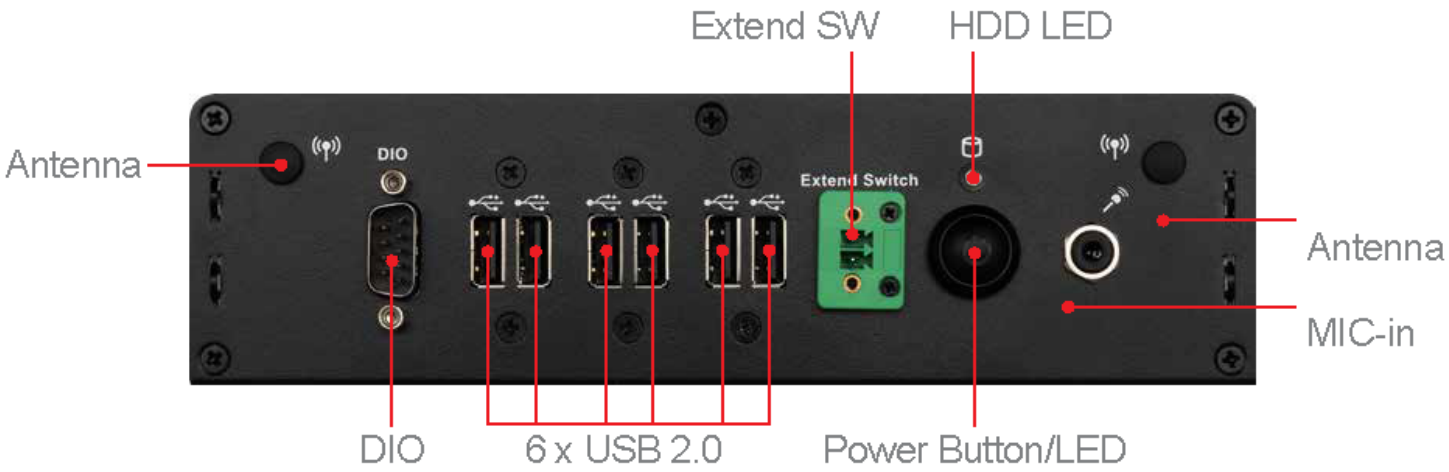
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I/O Diagram Images



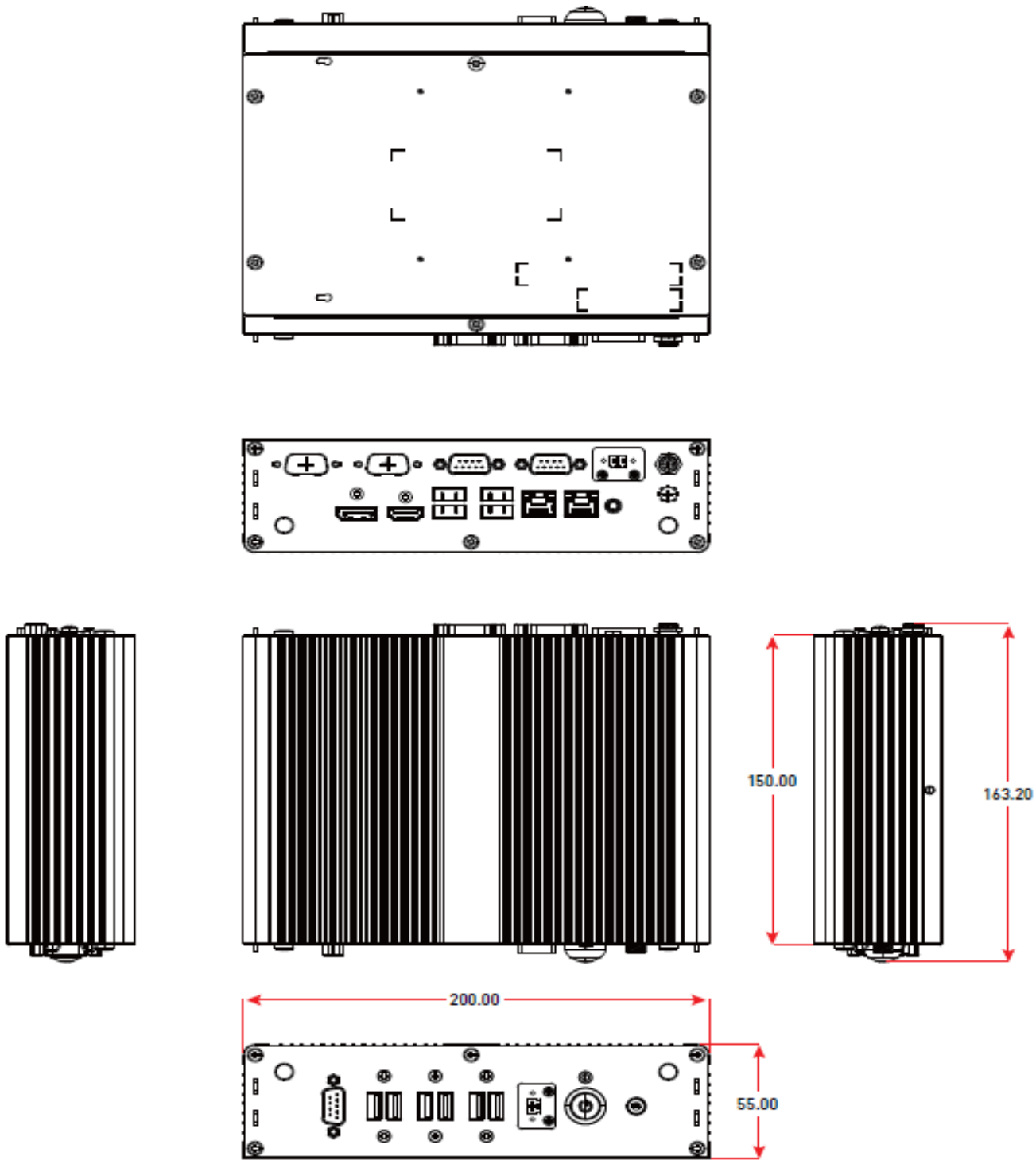


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Tech Diagram Images



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