

TB-6145

AI Endpoint Industrial-Grade Fanless PC



Key Highlights

- Intel® Atom X7425E processor, or upgrade to Core i3
- 2.5Gb Ethernet in two LAN ports
- Mini PCIe for Wi-Fi and Key B for Cellular
- DDR5 Memory
- DIN Rail or Wall Mountable
- Extended desktop capability with dual display ports

[VIEW ONLINE](#)

The TB-6145 is ready to be the centerpiece of your industrial and edge AI 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 [Alder Lake 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 two display ports, 8-channel GPIO, a mini PCIe slot, and more. With all of these features in a sturdy fanless enclosure, you can rely on this rugged 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	0.8 GHz (N305), Up to 3.6 GHz, up to 3.8 GHz (N305)
Memory Type	1x DDR5 SO-DIMM
Memory Support	8GB, 16GB
Storage Type	1x M.2 B+M Key SATA3 2242 Slot
Storage Support	M.2: 128GB-1TB

Operating Systems

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

Security Hardware	TPM 2.0
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Thermal & Environmental

Operating Temperature	-20°C - 60°C (-4°F - 140°F), -30°C - 70°C (-22°F - 158°F) (Option, With WT devices))
Humidity Range	95% Non-condensing
Storage Humidity	10% - 90% Non-condensing

Weight / Dimensions

Weight	2.2 kg (4.9 lbs)
Dimensions	200 x 55 x 140 mm (7.9 x 2.2 x 5.5 in)

External I/O Ports

USB	4x USB 2.0
Serial / Com	2x COM, Add 4x COM(Adds 2nd GPIO), Optional
Serial Protocol Detail	2x COM (RS-232/422/485 configured in BIOS)
Ethernet / LAN	2x RJ45 2.5 Gbe LAN
Video Outputs	1x DisplayPort, 1x HDMI
Power Input Port	DC-in Jack (Phoenix Type)

Power

Input Voltage Range	9-36V DC
Max Power Consumption	65W
Standard Power Adapter	12Vdc, 5A, 60W US power cord

Expansion Slots

Internal M.2	1x M.2 3042/3052 Key B (For 4G/5G Cellular expansion option)
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Enclosure

Color	Black
Led Indicator Light	Power
Control Buttons	Power Switch

Warranty

Warranty	Up to 5 Years
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Specifications subject to change.

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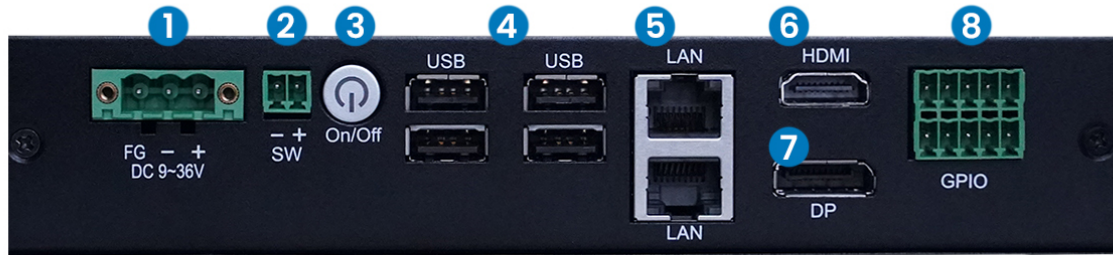
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I/O Diagram Images



1. Variable DC Input
2. Remote Power Switch
3. Power Button
4. 4x USB 2.0
5. 2x 2.5 Gb Ethernet
6. HDMI 2.0
7. DisplayPort 1.4
8. 8x GPIO (4 In, 4 Out)

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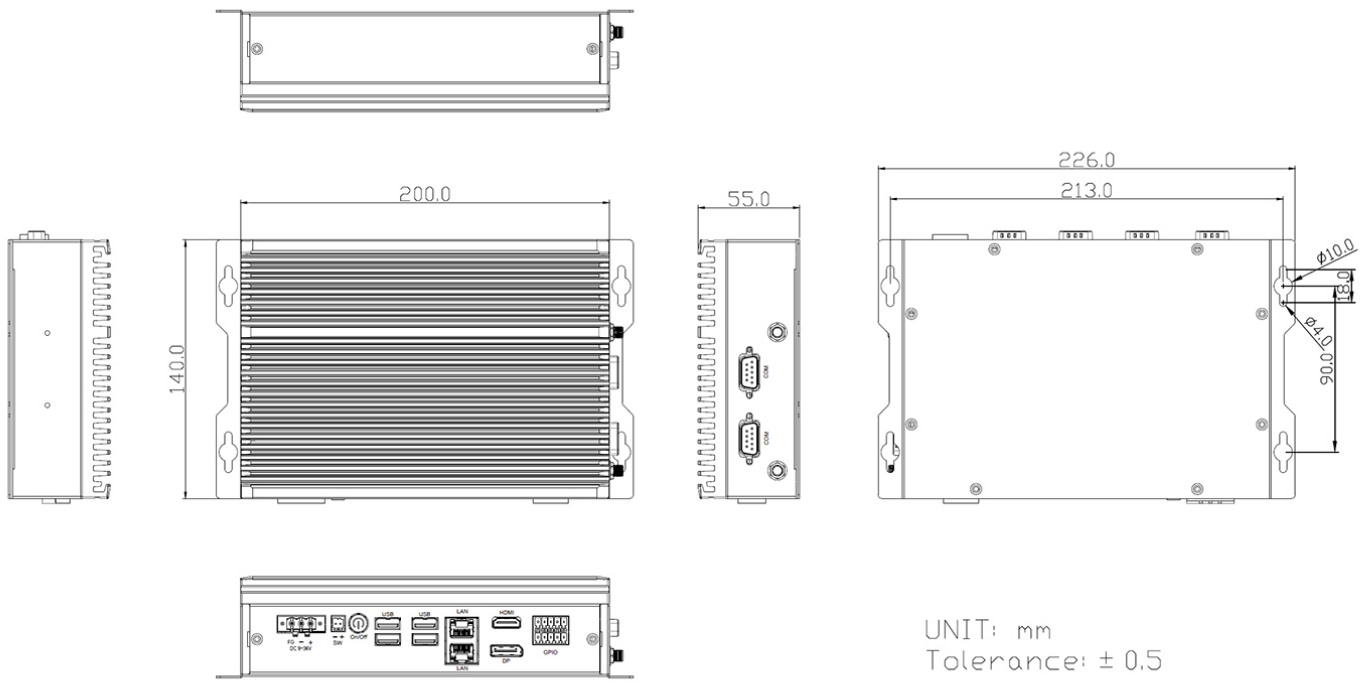
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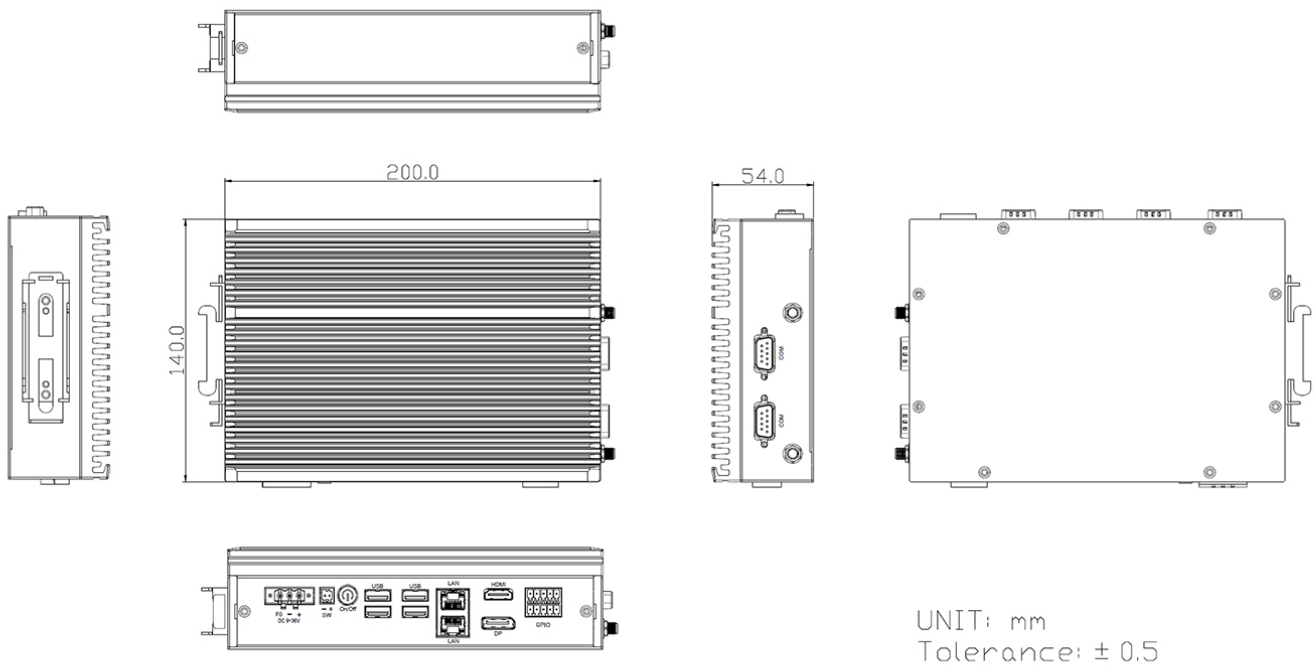
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Wall Mount



DIN Rail



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