

# TB-6145

## AI Endpoint Industrial-Grade Fanless PC



### Key Highlights

- Intel® AlderLake -N, Atom (Projects), or upgrade to Core i3
- Multiple IO Expansion Modules Available
- Mini PCIe for Wi-Fi and M.2 Key-B for Cellular
- DDR5 Memory
- DIN Rail or Wall Mountable
- Extended desktop capability with dual display ports, Both 4K!

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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 [Atom](#) 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. Wall mount and DIN Rail



options both pictured. \_

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# Technical Specifications

## Primary Components

<b>Processor Family</b>	Intel Celeron or Core I series 12th Generation Alder Lake N
<b>Processor Model</b>	AlderLake-N N97, ATom X7425e(Projects), Core i3-N305
<b>Processor Speed</b>	0.8 GHz (N305), up to 3.8 GHz (N305), x 3.4 GHz (X7425e), x Up to 3.6 GHz (N97)
<b>Memory Type</b>	1x DDR5 SO-DIMM
<b>Memory Support</b>	8GB, 16GB
<b>Storage Type</b>	1x M.2 B+M Key SATA3 2242 Slot
<b>Storage Support</b>	M.2: 128GB-1TB

## Operating Systems

<b>Windows</b>	Windows 10 IoT, Windows 10 Pro, Windows 11 IoT, Windows 11 Pro
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## Compatibility

<b>Security Hardware</b>	TPM 2.0
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## Thermal & Environmental

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

## Weight / Dimensions

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

*Specifications subject to change.*

## External I/O Ports

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

## Power

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

## Expansion Slots

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

<b>Color</b>	Black
<b>Led Indicator Light</b>	Power
<b>Control Buttons</b>	Power Switch

## Warranty

<b>Warranty</b>	Up to 5 Years
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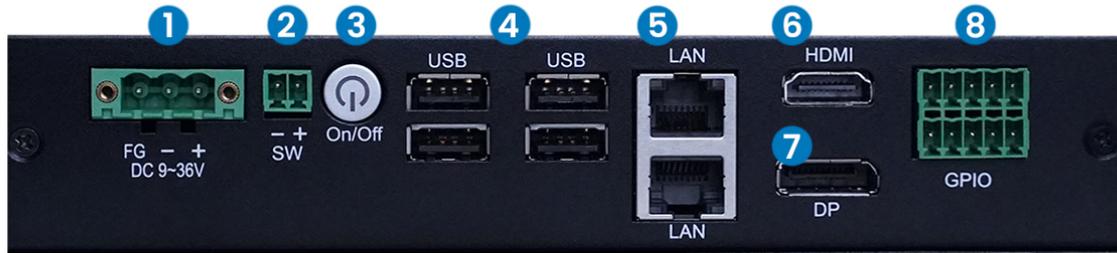
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## I/O Diagram Images



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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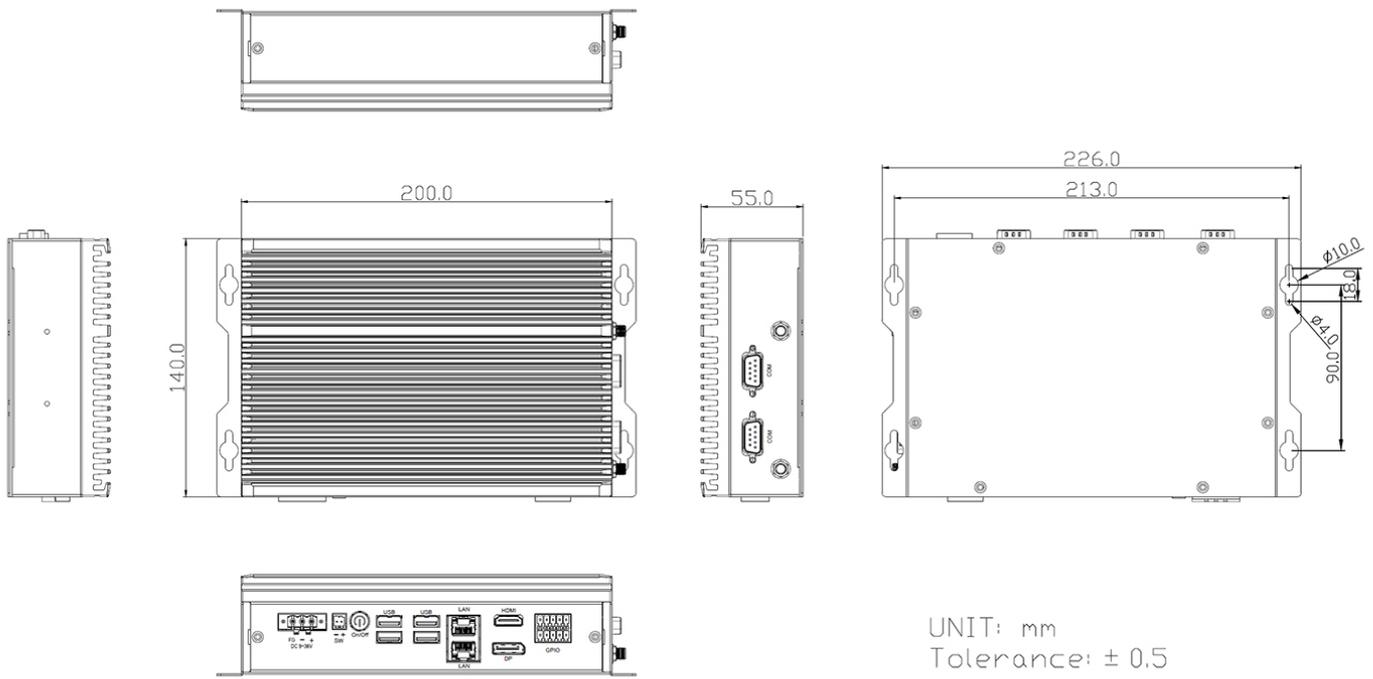
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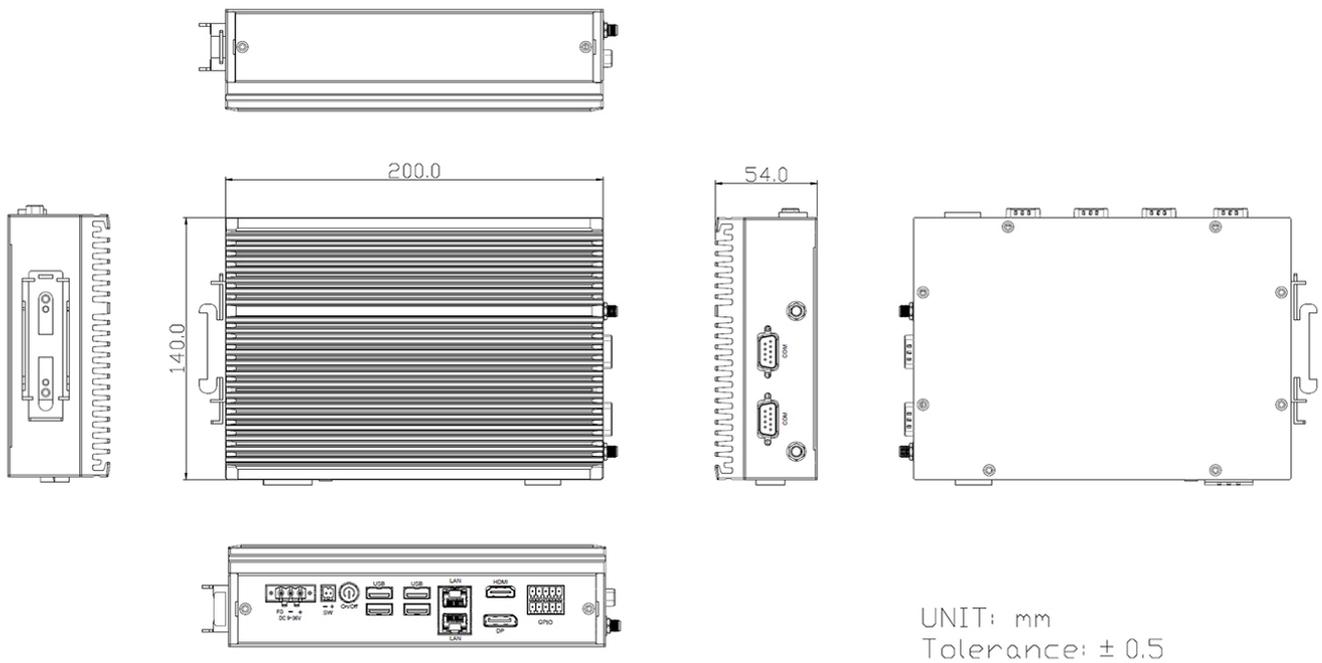
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## Wall Mount



## DIN Rail



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