

OPTIO TB-7293

Compact Core Ultra PC with 8 USB



Key Highlights

- AI-Enabled Core Ultra CPU
- Wide Operating Temperature Down to -40°C
- Wide Voltage DC Input
- Cellular Capability via SATA Slot and Antennas
- Video Out over USB-C
- Full-feature I/O: 6 USB 3.2, 2 USB 2.0

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The I/O-rich Optio TB-7293 optimizes peripheral usage to excel both at the heart of your systems or on the edge of them. Three video ports support up to four displays while a total of eight USB-A enable peripheral devices such as cameras. This small form factor PC handles our widest temperature range yet—negative 40°C to 60°C—and passively cools its Core Ultra CPU with robust internal heat sinks. Optio isn't just rugged, however; the 14th Gen processor with its built-in NPU empowers advanced AI control solutions. **Optio is part of the [Regiment Series](#) product family.**

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Technical Specifications

Primary Components

Processor Family	Intel Core Ultra Series 14th Generation Meteor Lake
Processor Model	Core Ultra 5 125U, Core Ultra 7 155U
Memory Type	1x DDR5 SO-DIMM
Memory Support	Up to 48GB

Power

Input Voltage Range	8-26V DC
Standard Power Adapter	72W (24V/3A) External Power Supply, 120W (24V/5A) External Power Supply (Only Required if PoE Module is Installed)

Operating Systems

Windows	Windows 10 IoT, Windows 11 IoT, Windows 11 Pro
Linux	Linux Ubuntu 24.04 or above (Contact your sales rep for more information)

Expansion Slots

Internal M.2	1x M-Key 2280 (PCIe4.0 X4, SATAIII), 1x M.2 2230 Key E (for WiFi expansion option), 1x M.2 B-Key 2242/3042/3052 (USB2.0/PCIeX1/SATAIII)
Expansion Module support	2x RJ45 Gbe LAN Expansion, Internal PoE+ Expansion (for RJ45 ports already onboard)

Enclosure

Material	Aluminum
Color	Black & Blue
Led Indicator Light	Power, Storage
Control Buttons	Power Button
Mounting Options	Wall Mount

Weight / Dimensions

Weight	2.1 kg (4.6 lbs)
Dimensions	210 x 150 x 63 mm (8.3 x 5.9 x 2.5 in)

Specifications subject to change.

External I/O Ports

USB	1x USB 3.2 Type-C (DP 1.4A), 3x USB 2.0, 4x USB 3.2 Gen 2
Serial / Com	4x COM
Serial Protocol Detail	1x RS232/422/485, 3x RS232
Ethernet / LAN	4x RJ45 2.5Gbe LAN (Optional PoE Module Available), Optional 2x RJ45 Gbe LAN Expansion
Video Outputs	1x DisplayPort 1.2, 1x DisplayPort via USB-C Alt Mode, 1x HDMI 1.4
Other Ports	1x 2-Pin DC Power Switch Connector, 1x 8-bit GPIO (in DB9 Connector)
Audio Ports	1x Audio Line-Out
Power Input Port	3-Pin DC-In (Phoenix Type)

Compatibility

Security Hardware	TPM 2.0
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Thermal & Environmental

Operating Temperature	-40°C - 60°C (-40°F to 140°F with Wide Temperature RAM/Storage)
Storage Temperature	-40°C - 85°C (-40°F - 185°F)
Cooling Solution	Passive - Fanless with Heatsink
Storage Humidity	10%-95%, non-condensing

Peripherals & Wireless Connectivity

WiFi	Optional WiFi 6E
Bluetooth	Optional Bluetooth 5.3
Sim Card	1x Nano SIM Card Slot

Certification

Certifications	CE, FCC
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Warranty

Warranty	Up to 5 Years
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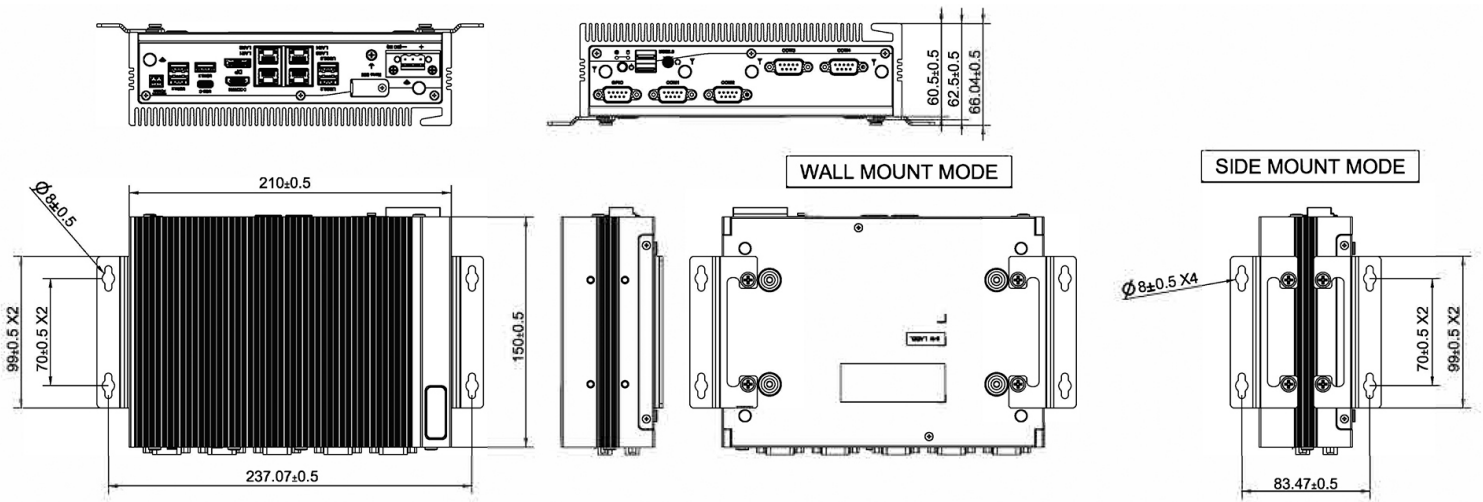
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2D Drawing



USA

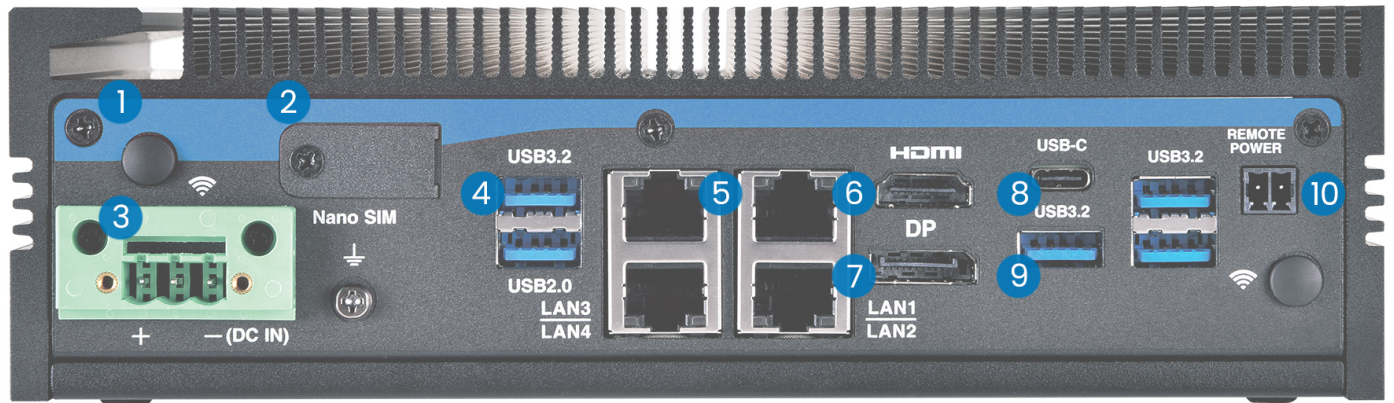
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1. Wi-Fi Antenna Holes
2. SIM Slot
3. 3-Pin Terminal Block
4. USB 3.2, USB 2.0
5. 4x LAN
6. HDMI
7. DisplayPort
8. USB-C

9. 3x USB 3.2
10. Remote Power Switch

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1. Cellular Antenna Holes
2. Power Button
3. 2x USB 2.0
4. Line Out
5. 4x COM
6. GPIO

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