TEGUAR

# REGIS TB-7393

## Rugged AI PC - Powered by 65W 14th Gen



## Key Highlights

- Multiple I/O Expansion Options, Including up to 14 LAN or PoE
- Supports Expansion Cards and GPUs up to Nvidia 4000 Pro SFF
- Dual Channel DDR5 Memory up to 96GB
- 9-48V Wide Voltage Power Input
- Custom I/O Flexibility

VIEW ONLINE

Regis TB-7393 is feature-packed and beautifully designed inside and out. With the sheer amount of RAM, versatile I/O, and graphics card support included, the sky is the limit with AI and industrial applications. Designed for edge AI workloads and rugged environments, Regis boasts a PCIe expansion slot for third party graphic cards, as well as I/O expansion for added LAN, CANBus, GPIO or COM. Regis is also an amazing Ignition®-ready device. Equip PoE expansion modules that can connect to IP cameras, small edge boxes, and other devices to monitor and control industrial machinery. Even the thermostat in an industrial facility can handle data aggregation from machine vision through TB-7393. **Regis is part of the Regiment Series product family.**


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# Technical Specifications

## Primary Components

| | |
|---|---|
| **Processor Family** | Intel Core I series 14th Generation Raptor Lake |
| **Processor Model** | Core i3-14100, Core i5-14400, Core i7-14700, Core i9-14900 |
| **Memory Type** | 2x DDR5 SO-DIMM |
| **Memory Support** | Up to 96GB |
| **Storage Type** | 1x M.2 SSD Slot (2260/2242) for SATA, 1x M.2 SSD Slot (2280/2260/2242) for NVMe or SATA, 1x mSATA SSD Slot, 2x 2.5" SATA Drive Bay for SSD/HDD |

## Power

| | |
|---|---|
| **Input Voltage Range** | 9-48V DC |
| **Standard Power Adapter** | 180W (12V/15A) GPU Power Supply (Only Required for GPUs needing more than 75W of Power), 300W (24V/12..5A) External Power Supply |

## Compatibility

| | |
|---|---|
| **Security Hardware** | TPM 2.0 |

## Expansion Slots

| | |
|---|---|
| **Internal M.2** | 1x M.2 2230 Key E (for WiFi expansion option), 1x M.2 2260/2242 B-Key (USB2.0 / PCIeX1 / SATAIII), 1x M.2 2280/2260/2242 M-Key (PCIe x4 NVMe, SATAIII) |
| **Expansion Module support** | 2x Isolated CANBus + 1x Isolated GPIO (DB9) Expansion, 4x DB9 COM (RS232/422/485) + 1x Isolated GPIO (DB9) Expansion, 4x M12 LAN Expansion, 4x M12 LAN Expansion w/ PoE+, 4x RJ45 LAN Expansion, 4x RJ45 LAN Expansion w/ PoE+, Internal PoE+ Expansion (For RJ45 Ports Already Included, Does not take up Expansion Bay Slot) |
| **Video Card Support** | Supports Cards up to 75W or 180W with External PSU (Max Dimensions - 221 x 145 x 43 mm) |

## Enclosure

| | |
|---|---|
| **Material** | Aluminum |
| **Color** | Black & Blue |
| **Led Indicator Light** | 1x DIO, 1x Power, 1x Storage, 4x LAN |
| **Control Buttons** | Power Button |
| **Mounting Options** | Wall Mount |

## Certification

| | |
|---|---|
| **Certifications** | CE, FCC |

***Specifications subject to change.***

## External I/O Ports

| | |
|---|---|
| **USB** | 8x USB 3.2 Gen 2 |
| **Serial / Com** | 3x COM |
| **Serial Protocol Detail** | 3x RS232/RS422/RS485 |
| **Ethernet / LAN** | 4x RJ45 2.5Gbe LAN (Optional PoE Module Available) |
| **Other Ports** | 1x 2-Pin DC Power Switch Connector, 1x 2-PIN Power Reset Connector, 1x 8-bit GPIO (in DB9 Connector) |
| **Audio Ports** | 1x Audio Line-Out, 1x Mic-In |
| **Power Input Port** | 3-Pin DC-In (Phoenix Type) |

## Operating Systems

| | |
|---|---|
| **Windows** | Windows 10 IoT, Windows 11 IoT, Windows 11 Pro |
| **Linux** | Linux Ubuntu 22.04 or above (Contact your sales rep for more information) |

## Thermal & Environmental

| | |
|---|---|
| **Operating Temperature** | -40°C - 50°C (-40°F to 122°F (with 0.7m/s Air Flow and Wide Temperature Memory/Storage)) |
| **Storage Temperature** | -40°C - 85°C (-40°F – 185°F) |
| **Cooling Solution** | CPU - Passively Cooled with Heatsink, PCIe Expansion Area - Actively Cooled with 2x 40x40x20mm Fans |
| **Storage Humidity** | 10%-95%, non-condensing |

## Peripherals & Wireless Connectivity

| | |
|---|---|
| **WiFi** | Optional WiFi 6E |
| **Bluetooth** | Optional Bluetooth 5.2 |
| **Sim Card** | 2x SIM Card Slot |

## Weight / Dimensions

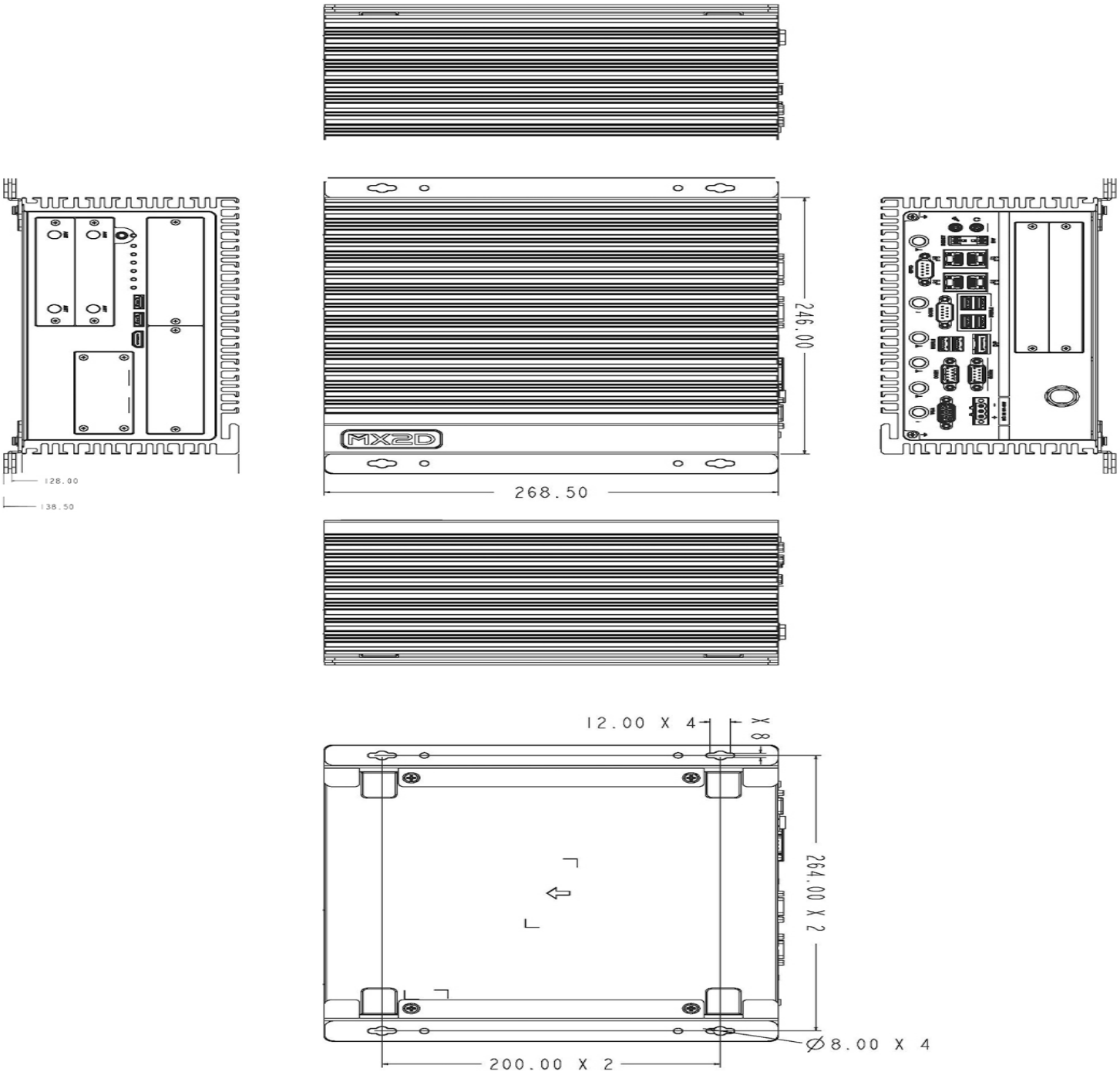
| | |
|---|---|
| **Weight** | 7.7 kg (17.0 lbs) |
| **Dimensions** | 268 x 246 x 128 mm (10.6 x 9.7 x 5.0 in) |


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## 2D Drawing



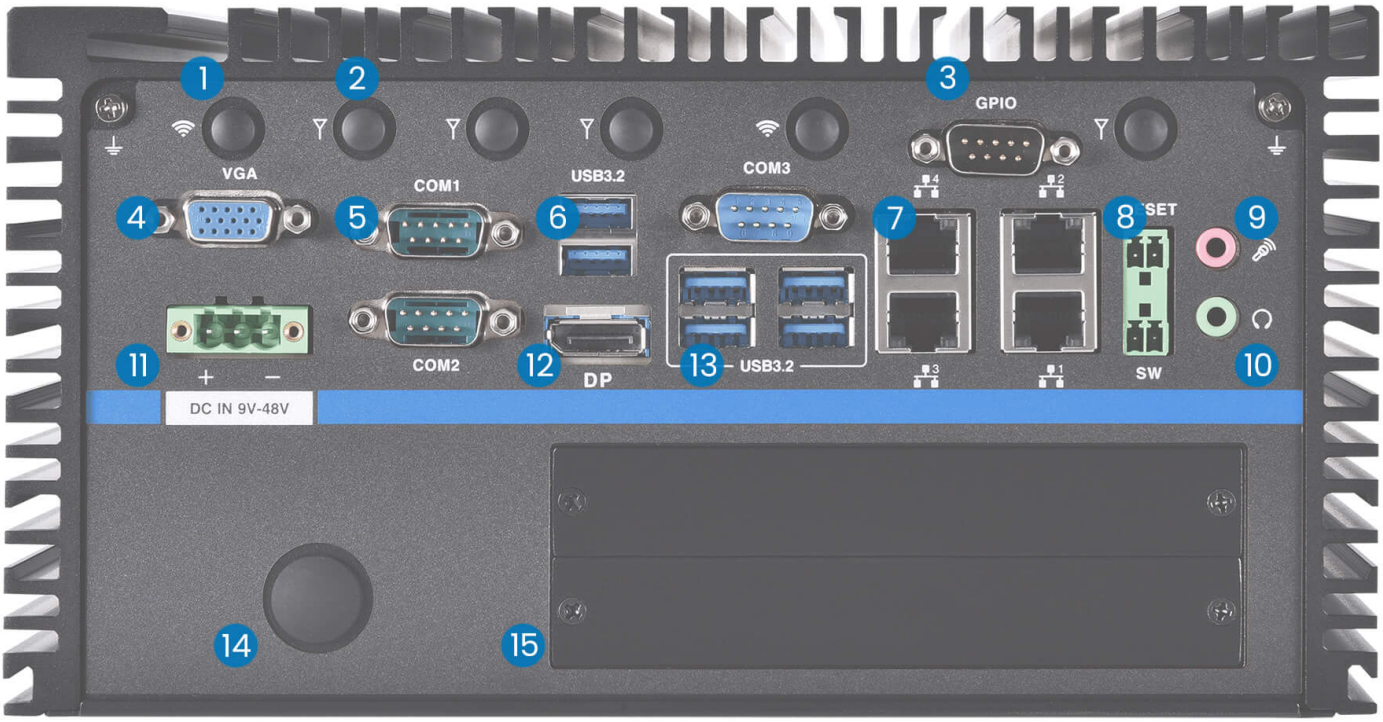


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# I/O




1. 2x Wi-Fi Antenna Holes
2. 4x Cellular Antenna Holes
3. GPIO
4. VGA
5. 3x COM
6. 2x USB 3.2
7. 4x LAN
8. Power Switch and Reset Connector
9. Mic In
10. Line Out
11. 3 Pin Terminal Block
12. DisplayPort
13. 4x USB 3.2
14. GPU Power Supply
15. PCIe Slot

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