

REGIS TB-7393-ABB

ABB Eyemotion Compatible Rugged AI Box PC



ABB Robotics

Key Highlights

- Intel i7-14700 20-Core CPU
- NVIDIA RTX 2000 Ada Workstation GPU
- 2 x 16GB Wide Temp DDR5 SO-DIMM (32GB Total)
- 1 x 1TB Wide Temp SATA SSD
- Ubuntu 22.04 Operating System
- Internal PoE Module for 4 x 2.5GbE PoE LAN
- External AC-to-DC Power Supply

[VIEW ONLINE](#)

Regis TB-7393-ABB is beautifully designed as the perfect hardware solution to give ABB Robotics advanced vision and perception. With the sheer amount of RAM, versatile I/O, and graphics card support included, the sky is the limit with AI and industrial applications. OmniCore™ EyeMotion gives any OmniCore-powered ABB robot powerful sensing and perception capabilities.

Regis TB-7393-ABB houses the smart software toolbox and adds vision capabilities to ABB's RAPID programming language, working with any camera or sensor, and with any ABB robot. This configuration is designed for compatibility with [ABB Eyemotion](#) software, including a NVIDIA RTX 2000 ADA GPU and Intel 65W i7 Processor.

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 i7-14700
Memory Type	32GB (2x 16GB) Wide Temp DDR5 SO-DIMM
Storage Type	1x 1TB Wide Temp 2.5" SATA SSD

Power

Input Voltage Range	9-48V DC
Standard Power Adapter	300W (24V/12.5A) External Power Supply

Operating Systems

Linux	Linux Ubuntu 22.04
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Expansion Slots

Internal M.2	1x M.2 2230 Key E (for WiFi expansion option), 1x M.2 2260/2242 B-Key (USB2.0 / PCIe x1 / SATAIII), 1x M.2 2280/2260/2242 M-Key (PCIe x4 NVMe, SATAIII)
Expansion Module support	Internal PoE+ Expansion (For RJ45 Ports Already Included, Does not take up Expansion Bay Slot)
Video Card Support	NVIDIA RTX 2000 ADA

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

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)

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
Video Outputs	1x DisplayPort 1.4, 1x HDMI 1.4, 1x VGA
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)

Compatibility

Security Hardware	TPM 2.0
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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

Certification

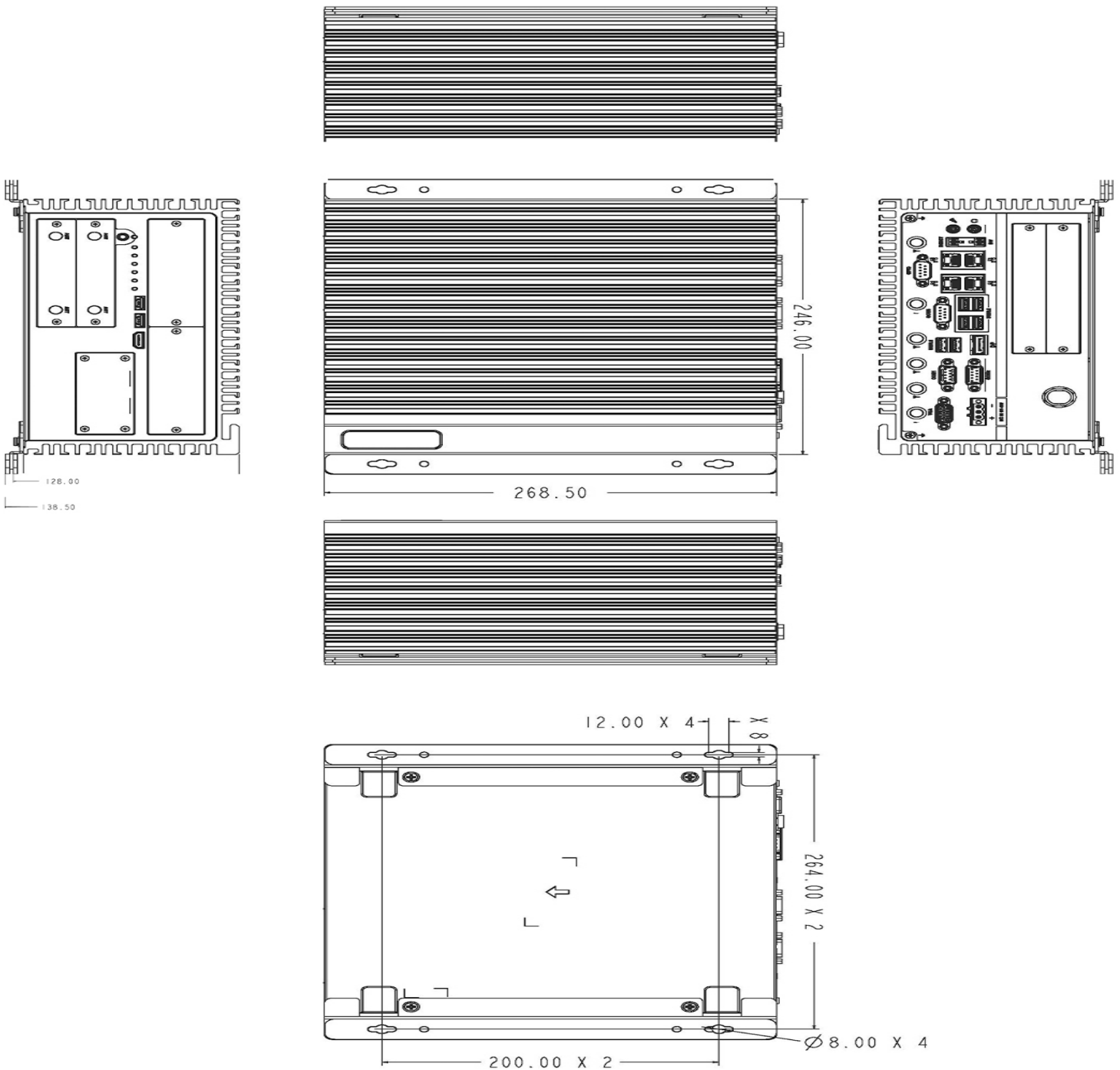
Certifications	CE, FCC
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2D Drawing



USA

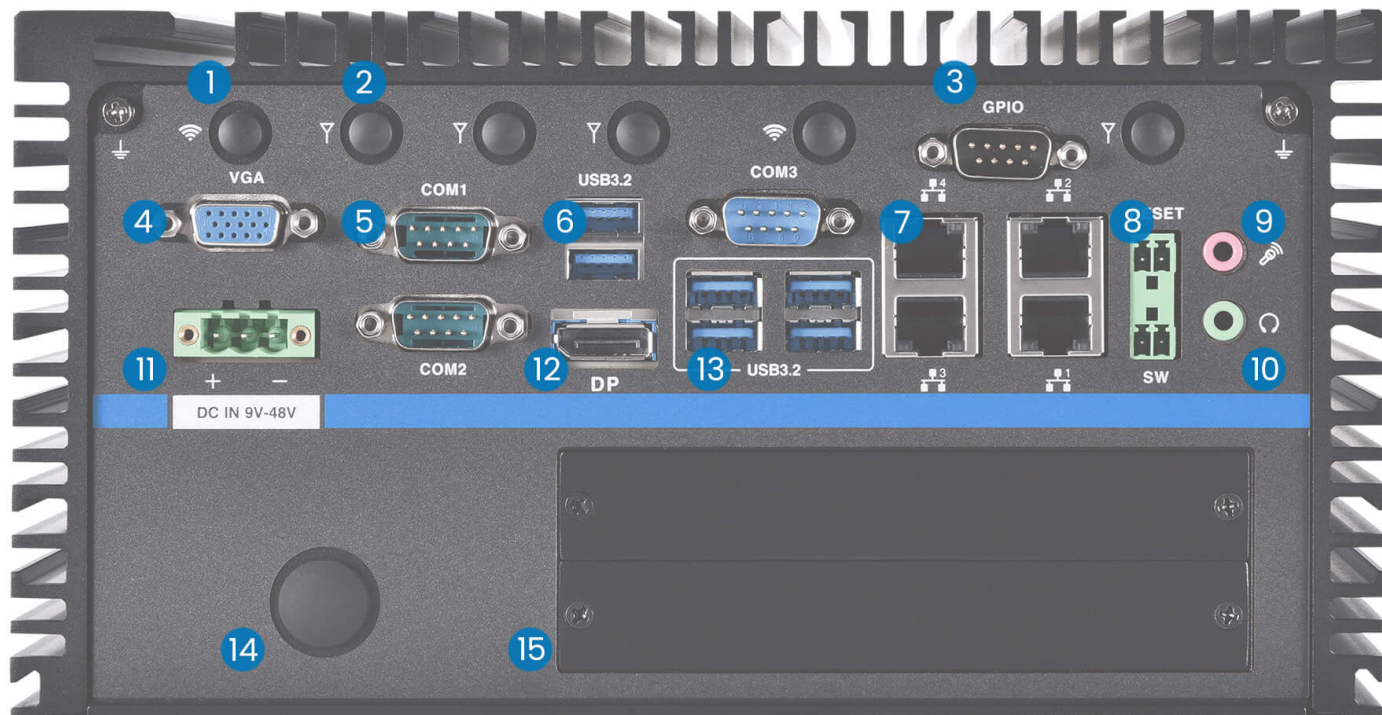
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|-------------------------------------|--------------------------|
| 1. 2x Wi-Fi Antenna Holes | 9. Mic In |
| 2. 4x Cellular Antenna Holes | 10. Line Out |
| 3. GPIO | 11. 3 Pin Terminal Block |
| 4. VGA | 12. DisplayPort |
| 5. 3x COM | 13. 4x USB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

USA

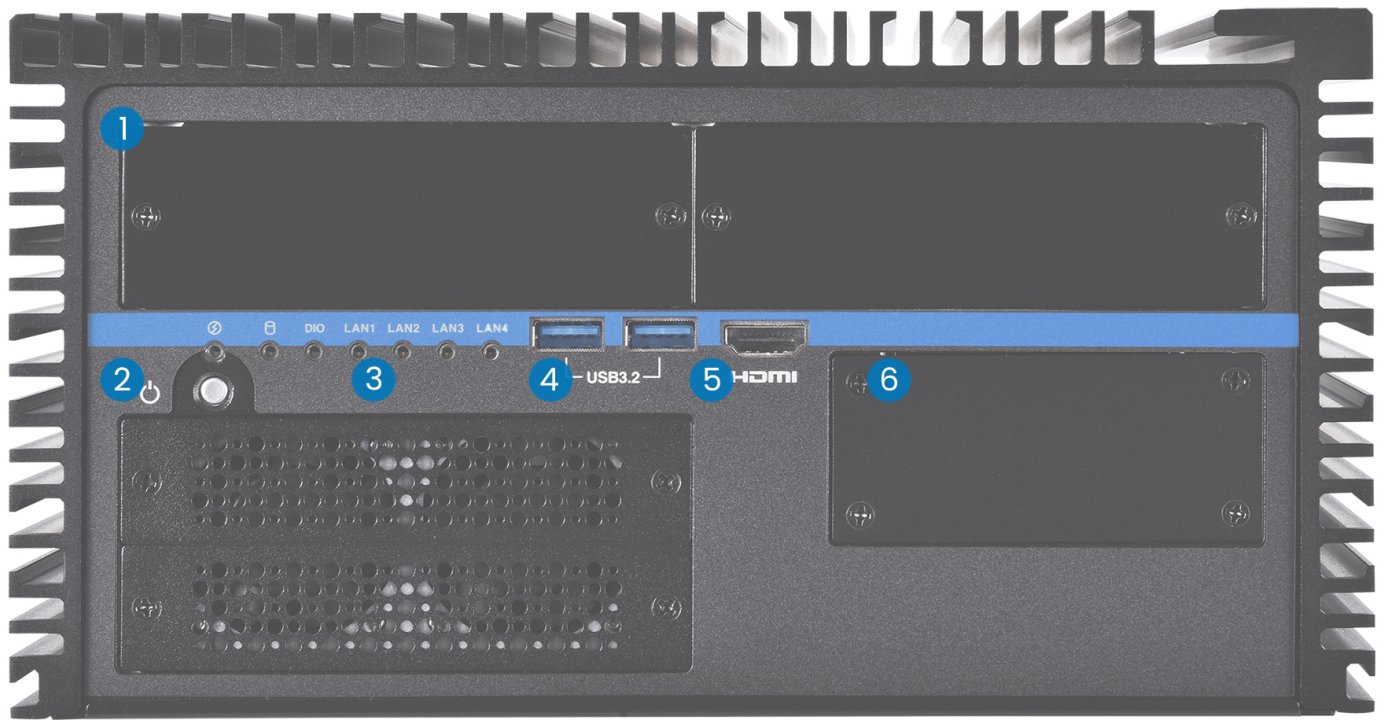
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1. 2x I/O Expansion Bays
2. Power Button
3. Indicator Lights
4. 2x USB 3.2
5. HDMI
6. 2.5" Bay

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