

# ROBOX300 NEW

ROS 2 AMR Controller for Navigation and Control Solutions with 11th Gen Intel® Core™ i5-1145G7E Processor

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▲ Front view



▲ Rear view

## Features

- 11th gen Intel® Core™ i5-1145G7E processor (Tiger Lake), 15W
- 6 RS-232/422/485 and 2 CAN 2.0A/B
- Wide operating temperature from -40°C to +60°C
- Wide voltage input from 9 to 60 VDC
- Smart Ignition Management: USB power on/off control
- Supports Linux Ubuntu 22.04 LTS
- Supports Axiomtek AMR Builder Package



Fanless



Wide Temp.



Cable Lock Bracket



9-60VDC



Ubuntu



USB power on/off



▲ With cable lock bracket

## Specifications

Standard Color	Blue
Construction	Aluminum extrusion and heavy-duty steel
CPU	11th gen Intel® Core™ i5-1145G7E processor, 15W
System Memory	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB
System I/O Outlet	<p>Front side</p> <p>6 x Serial port (4-wire RS-232: TX/RX/RTS/CTS, RS-422, RS-485) with isolated 1.5kVDC, terminal block type</p> <p>2 x CAN bus with isolated 1.5kVDC module (supporting the CAN 2.0A and CAN 2.0B protocols), terminal block type</p> <p>1 x 8-bit GPIO, terminal block type</p> <p>1 x Line-out &amp; Mic-in</p> <p>1 x Power button</p> <p>1 x Reset button</p> <p>2 x Antenna opening</p> <p>1 x Front-access SIM slot</p> <p>Rear side</p> <p>2 x HDMI 1.4b</p> <p>4 x USB 3.2 Gen1 Type A with support for on/off control</p> <p>2 x USB 2.0 Type A with support for on/off control</p> <p>3 x 10/100/1000/2500 Mbps Ethernet (Intel® I226-IT)</p> <p>1 x RS-232 for console port</p> <p>4 x Antenna opening</p>
Storage	<p>1 x M.2 Key M 2280 for NVMe</p> <p>1 x 2.5" SATA (optional)</p>
Expansion Interface	<p>1 x M.2 Key E 2230 for Wi-Fi/Bluetooth module</p> <p>1 x Full-size PCI Express Mini Card slot (USB + PCIe signal)</p>
System Indicator	<p>1 x Green LED for system power-on</p> <p>1 x Orange LED for storage access</p>
Power Supply	9 to 60 VDC (typical VDC input 12/24/48V via Phoenix-type power connector)
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with 0.5 m/s air flow
Humidity	10% to 95% @ +40°C, non-condensing
Vibration Endurance	Random 3 Grms with SSD, 4 Grms with M.2, and 1 Grms with HDD; X, Y, Z Axis, 1 hour for each axis

## Specifications

Shock	Half sine wave, 3 times (each axis), acceleration: 50G
Dimensions (W x D x H)	250 (9.84") x 170 (6.69") x 62 (2.4") mm
Weight (net/gross)	2.5 kg (5.51 lbs)/3.3 kg (7.27 lbs)
Certifications	CE, FCC Class A, UKCA
OS Support	Linux Ubuntu 22.04 LTS

## Ordering Information

### Standard

ROBOX300	ROS 2 AMR controller with 11th gen Intel® Core™ i5-1145G7E processor
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## Software Support

Linux Ubuntu 22.04 LTS  
 Axiomtek AMR Builder Package  
 Intel® OpenVINO™  
 ROS/ROS 2

## Optional Accessory

Wall mount kit  
 DDR4 SO-DIMM module  
 Cable lock bracket  
 SSD/HDD tray  
 M.2 NVMe/SATA SSD module  
 Wi-Fi/Bluetooth module  
 5G module  
 LTE module

\* Specifications and certifications may vary based on different requirements.

## Dimensions

