

# ROBOX300 NEW

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

2



▲ Front view



▲ Rear view



▲ With cable lock bracket



Fanless



Wide Temp.



Cable Lock Bracket



9 to 60 VDC



Ubuntu



USB power on/off

## 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

## 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	<b>Front side</b> 6 x serial port (4-wire RS-232: TX/RX/RTS/CTS, RS-422, RS-485) with isolated 1.5kVDC, terminal block type 2 x CANbus with isolated 1.5kVDC module (supporting the CAN 2.0A and CAN 2.0B protocols), terminal block type 1 x 8-bit GPIO, terminal block type 1 x Line-out & Mic-in 1 x power button 1 x reset button 2 x antenna opening 1 x front-access SIM slot <b>Rear side</b> 2 x HDMI 1.4b 4 x USB 3.2 Gen1 Type A with support for on/off control 2 x USB 2.0 Type A with support for on/off control 3 x 10/100/1000/2500 Mbps Ethernet (Intel® I226-IT) 1 x RS-232 for console port 4 x antenna opening
Storage	1 x M.2 Key M 2280 for NVMe 1 x 2.5" SATA (optional)
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth module 1 x full-size PCI Express Mini Card slot (USB + PCIe signal)
System Indicator	1 x green LED for system power-on 1 x orange LED for storage access
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
Relative Humidity	10% to 95% @ +40°C relative humidity, 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
Shock	Half sine wave, 3 times (each axis), acceleration: 50G
Dimensions (W x D x H)	250 x 170 x 62 mm (9.84" x 6.69" x 2.4")
Weight (net/gross)	2.5 kg (5.51 lbs)/3.3 kg (7.27 lbs)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 22.04 LTS

## Ordering Information

### Standard

ROBOX300 (P/N: E27V300100)	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

## Packing List

Wall mount kit  
SSD tray  
SSD power and data cable  
Thermal pads  
Screws

## Optional Accessories

Wi-Fi/LTE module kit

E29R144100 Cable lock bracket

509000001500 24V 120W power adapter

DDR4 SO-DIMM 4GB or above

M.2 NVMe 128GB or above

SATA SSD 64GB or above

Power cord

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

## Dimensions

