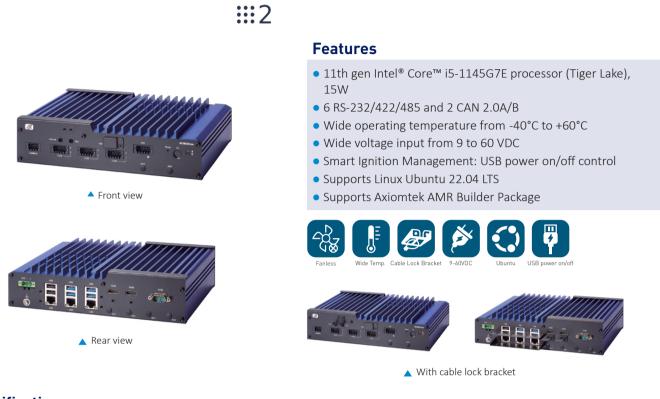
ROBOX300 💚

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



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	Front side
	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 CAN bus 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
	Rear side
	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
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

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

