



SyncBotic Robot Controller

The SyncBotic robot controller is a great solution for engineers planning to build their own mobile robots utilizing multiple sensors. It is based on high-speed FPGA and 11th Gen. Intel® Core™ Processor. It provides 4-channel PPS and time data output to improve sensor fusion capability and outdoor and indoor time synchronization. Thanks to built-in SLAM script, getting the robot up and running is fast and simple.

Processor	Intel 11th Generation Core: • i7-1185G7E (4C, 1.7GHz, up to 4.4GHz, TDP-up 28W) • i5-1145G7E (4C, 1.5GHz, up to 4.1GHz, TDP-up 28W) • i3-1115G4E (2C, 2.2GHz, up to 3.9GHz, TDP-up 28W) • Celeron® 6305E (2C, 1.80GHz, TDP 15W)
Storage	M.2 M Key Slot, up to 2TB NVMe SSD
Memory	Up to 64GB
Ports (front)	1x HDMI, 3x Ethernet, 4x USB 3.0, 2-channel CAN
Ports (back)	4x 1PPS + time data, 2x RS232/485, 2x FAKRA Z code, 1x Ethernet
Ports (side)	2x CAN-FD, 1x PM&GPIO
Ports (internal)	1x M.2 2230 E key, 1x M.2 2280 M key, 2x Mini PCIe slot
Built-in GPS	GPS, QZSS, SBAS, Galileo, GLONASS, BEIDOU
Built-in IMU	6-axis

Software support	ROS 1/ROS 2
Power	9-36VDC, 60W
Dimensions	175 x 150 x 72 mm, 2kg