NOVATE AND CREATE

UP SQUARED V2 ROBOTIC STARTER KIT



UP Squared V2 Robotic Starter Kit powered by the latest Intel® Pentium® J6426 processor.

- A complete package that comes with a compute unit, a 3D vision camera, and related components to work with the iRobot Create® 3 Educational Robot Platform
- Includes sample applications based on open-source ROS2, the ROSboard Web UI dashboard for remote access, and online tutorials to develop, build, and deploy mobile robot applications.
- Delivers a pre-validated option to accelerate deployment of ROS2-based AMR applications.





























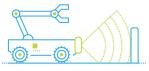
Sold Separately











Build and Test Robotics Applications

Run ROS2 sample applications on the UP Squared V2 Robotic Starter Kit. Leverage the Intel® technology to develop your autonomous mobile robot



Tutorials and Resources

Find the complete documentations via UP Wiki for tutorials and guides to get started on robotics development.





Mobile Robotics Platform

Jumpstart your robotics projects with an affordable, trusted mobile robotic starter kit. It is enhanced by the UP Squared V2, which is powered by Intel® Pentium® J6426, plus the Intel® RealSense™ depth camera D435i.

Begin with Ease

Grasp the fundamentals of robotics using sample applications that enable the robot to perform 2D/3D mapping and share video livestream thanks to the Intel® RealSense™ depth camera D435i

Customized for Advanced Robotics Applications

Modify reference software with artificial intelligence and Simultaneous Localization and Mapping (SLAM) algorithms. Replace software modules with custom solutions to meet your application needs.

shop@up-board.org

Hardware overview

- ➤ Intel® Pentium® J6426, up to 3.00 GHz
- ➤ Intel® UHD Graphics
- > 4GB LPDDR4
- ➤ 32GB eMMC
- ➤ Intel® AC9260 WiFi Kit (via M.2 2230)
- ➤ Intel® RealSense™ Depth Camera D435i
- ➤ Connection with Create® 3 Educational Robot
 - Power Connector (5.5 x 2.1mm) with cable
 Step Down Converter (DC 8 V 40 V to 12 V)
 - USB-C to Ethernet AdapterFlat Ethernet Cable (15cm)

 - Mini Fan

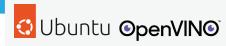
Sold Separately:

- Create® 3 Educational RobotRobot Model: Create® 3 Educational Robot
 - > Battery Type: 26Wh lithium-Ion Rechargeable
 - ➤ Charging Dock: Home Base® Station
- ➤ Wireless Controller: Logitech G F710

Software overview

- ➤ Ubuntu 20.04
- - > ROS2 Sample Applications for the Robot
- > ROS Board Web UI

IIIROS2 REALSENSE





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