

Qualcomm RB6 Robotics Development Kit User Guide

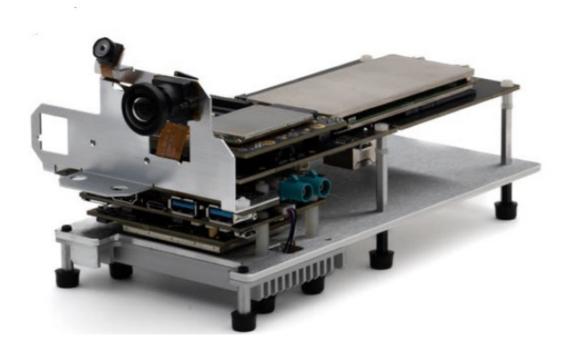
Home » Qualcomm RB6 Robotics Development Kit User Guide

Contents [hide

- 1 Qualcomm RB6 Robotics Development Kit
- 2 Component list
- 3 Qualcomm Robotics RB6 Mainboard
- 4 Vision Mezzanine board
- 5 Downloading and installing Qualcomm Robotics RB6 Development Kit Tools and Resources
- 6 Documents / Resources
 - **6.1 References**
- **7 Related Posts**

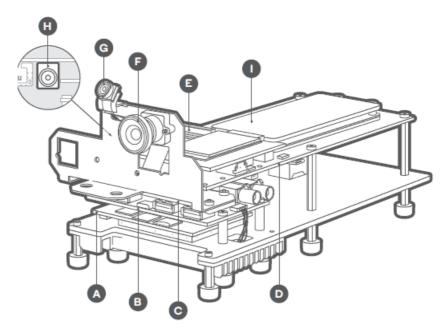


Qualcomm RB6 Robotics Development Kit



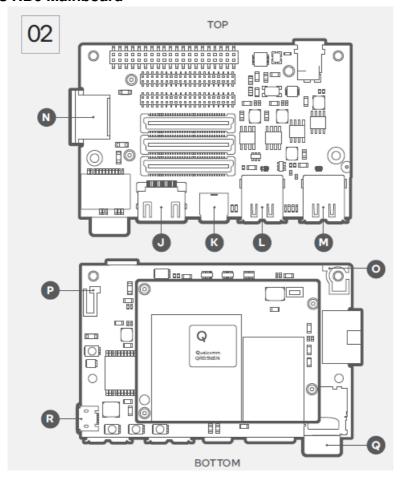
Component list

• Qualcomm Robotics RB6 Development Kit A: QRB5165N SOM (system on module) board



- B: Qualcomm Robotics RB6 mainboard
- C: Vision mezzanine board
- D: Al mezzanine board
- E: Mezzanine expansion connectors
- F: IMX577 main camera
- G: OV9282 tracking camera
- **H:** Power supply input (12V)
- I: AIC100 module

Qualcomm Robotics RB6 Mainboard



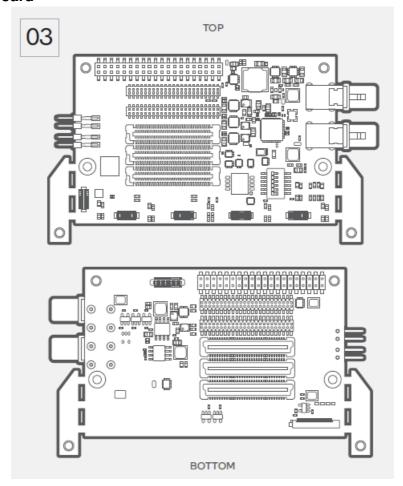
J: HDMI type A **K:** USB type C

L: USB type A (host mode)
M: USB type A (host mode)
N: RJ45 Ethernet connector
O: 2.4/5GHz Wi-Fi/BT Antenna 0
P: 2.4/5GHz Wi-Fi/BT Antenna 1

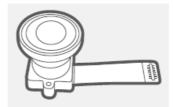
Q: MicroSD card

R: Micro USB debug connector

Vision Mezzanine board



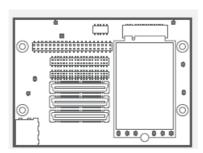
1. IMX577 main camera



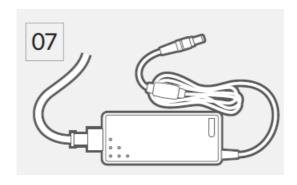
2. OV9282 tracking camera



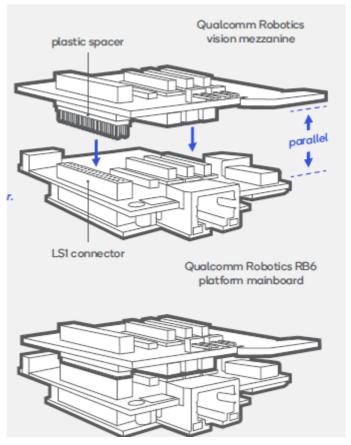
3. 5G mezzanine (optional accessory)



4. Power supply (12V)

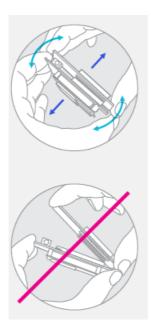


Important! To CONNECT mezzanine board to Qualcomm Robotics RB6 carrier board:



- Ensure the plastic spacer is present on the LS1 connector.
- Ensure all connectors are properly aligned and boards are parallel with each other Press down firmly to squeeze boards together (avoid pressing in the center of the SOM board).

To REMOVE mezzanine board to Qualcomm Robotics RB6 carrier board:



- Grasp both boards firmly and wiggle up and down to gradually loosen the connectors (note boards are very tight). Pull boards straight apart.
- Do not pry boards apart. This will result in damage to pins.

Downloading and installing Qualcomm Robotics RB6 Development Kit Tools and Resources

Product info

For resources to help you kickstart your robotics development, please visit:

https://developer.qualcomm.com/qualcomm-robotics-rb6-kit

Community forums

https://developer.qualcomm.com/forums/qdn-forums/hardware/robotics-rb6-dev-kit

Additional resources:

Robotics RB6 Development Kit Quick Start Guide Hardware Reference Guide Software Reference Manual Qualcomm Robotics RB6 and Qualcomm QRB5165N are products of Qualcomm Technologies, Inc. and/or it's affiliates. Other products and brand names may be trademarks or registered trademarks of their respective owners.

©2022 Qualcomm Technologies, Inc. and/or it's affiliated companies. All rights reserved. This technical data may be subject to U.S. and international export, re-export, or transfer ("export") laws. Diversion contrary to U.S. and international law is strictly prohibited.

- developer.qualcomm.com
- Qualcomm Robotics RB6 Development Kit
- Advanced robotics platform featuring Qualcomm® QRB5165N processor with high-performance heterogeneous compute, artificial intelligence engine, computer vision, vault-like security, multimedia, and connectivity including Bluetooth®, Wi-Fi, and 4G/5G.

Documents / Resources



Qualcomm RB6 Robotics Development Kit [pdf] User Guide RB6 Robotics Development Kit, RB6, Robotics Development Kit, Development Kit

- Q Mobile Development Qualcomm Developer Network
- Qualcomm Robotics RB6 Development Kit Qualcomm Developer Network
- Qualcomm® Robotics RB6 Development Kit Qualcomm Developer Network

Manuals+, home privacy