

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.



RB6DK-SG-01

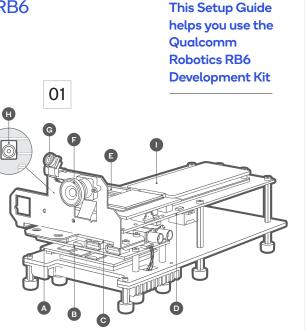
Qualcomm[®] Robotics RB6 Development Kit

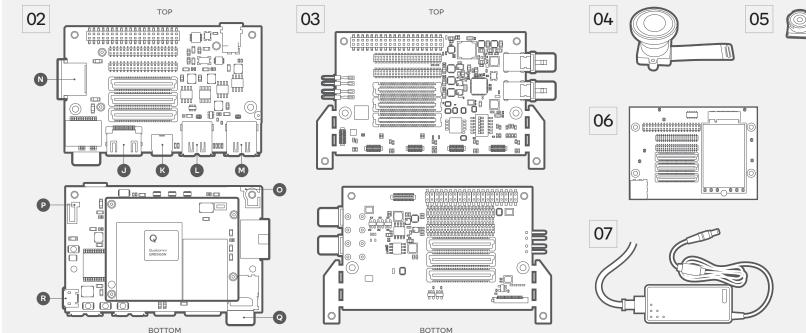
Component list

- 01 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

02 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
- 03 Vision Mezzanine board
- 04 IMX577 main camera
- 05 OV9282 tracking camera
- 06 5G mezzanine (optional accessory)
- 07 Power supply (12V)

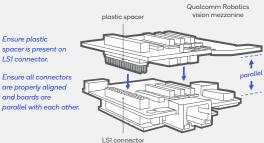




Important!

To CONNECT

mezzanine board to Qualcomm Robotics RB6 carrier board:



Qualcomm Robotics RB6 platform mainboard

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.



Press down firmly to squeeze boards together (avoid pressing in center of SOM board).



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.gualcomm.com/qualcomm-robotics-rb6-kit

Community forums

https://developer.gualcomm.com/forums/gdn-forums/hardware/robotics-rb6-dev-kit

Additional resources:

Robotics RB6 Development Kit Quick Start Guide Hardware Reference Guide Software Reference Manual



developer.qualcomm.com

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