



Intel® RealSense™ Robotic Development Kit



The development kit consists of a credit card-sized board and an Intel® RealSense™ camera (R200). Together, they help to bridge the gap between rapid prototyping and final product design.

Board Specifications

- Dimensions: 3.37 in x 2.22 in / 85.60 mm x 56.5 mm
- Processor: Intel® Atom™ Processor x5-Z8350
- Graphics: Intel® HD Graphics
- Camera interface: CSI (4 megapixel)
- Expansion: 40-pin general purpose bus, supported by Altera*
- Real-time-clock (RTC): Yes
- Power: 5V DC-in at 3A 5.5/2.1 mm jack
- Memory: 4 GB DDR3L-1600
- Storage capacity: 32 GB eMMC
- Compatible operating system: Linux*, Ubuntu*

Port Specifications

- USB 2.0: 4 x UB 2.0, 2 x USB 2.0 pin header (10 pins total)
- USB 3.0: 1 x UB 3.0 OTG
- Ethernet: 1 x Gb Ethernet (full speed) RJ-45
- Display interface: DSI/ eDP
- Video and audio: HDMI 1.4b, I2S audio port

Camera Specifications (R200)

- Camera: Intel® RealSense™ Camera (R200)
- Longer range** (up to 3-4 meters indoors, longer range outdoors)
- Depth / Infrared: 640 x480 resolution at 60 FPS
- RGB: 1080p at 30 FPS
- USB 3.0 required
- Camera dimensions: 130 mm x 20 mm x 7 mm

Target Usages

- Rapid prototyping or design of robotics solutions

Box Contents

- Intel® RealSense™ Depth Camera R200
- UP* board
- USB 3.0 cable
- Power adapter
- USB 3.0 adapter (micro B male to A female)

SYSTEM REQUIREMENTS

- **Ports:**
USB 3.0
- **Supported Operating Systems**
Linux*, Ubuntu* version 14.04, 16.04