

# ToF DEVELOPMENT KIT

PRECISE MESAUREMENT AT A SMALL PRICE

REBOTNIX  
INDUSTRIAL SOLUTIONS

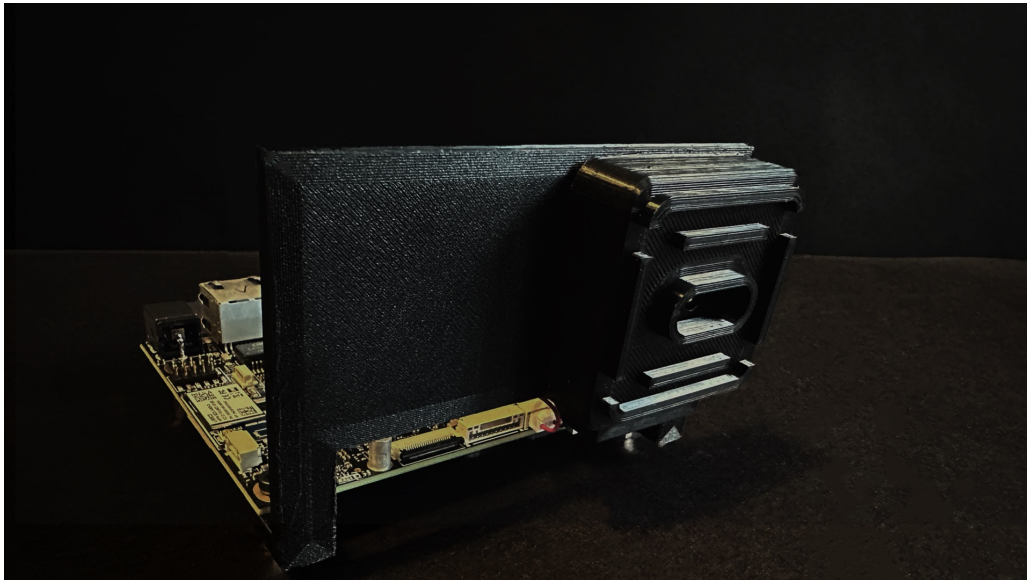


# REBOTNIX ToF development kit

EDGE DEVICE / SKU: RB-ToF-DEVK

The ToF devkit contains a ready to go ToF sensor, all required software drivers as well an NVIDIA Jetson NANO with 4 gigabytes or Xavier NX with 8 gigabytes of ram. The final production version will support FPD-Link III interfaces. You can get single FPD Link serializer or de-serializer boards from us that are certified with out ToF sensor.

You can use the sensor under sunlight too. With some trial-and-errors, and through innumerable experiments, the camera a laser us based on VCSEL that operates at the 940nm wavelength, which can well suppress interferences from ambient light in outdoor environments.



| Specification              | REBOTNIX ToF Sensor  |
|----------------------------|--|
| Number of Effective Pixels | 43200  |
| Image Size                 | 1/6"   |
| Max. Depth Frame Rate      | 30   |
| TDP                        | 3.5W   |
| Supported Jetson           | 4.5, 4.6 or higher   |
| Modulation Frequency       | 75 MHz   |
| Viewing Angle              | 70° Diagonal   |
| Measurement Distance       | 400 centimeters / 157,48 inches                            |
| Light Source               | 940nm VCSEL illuminator                                    |
| Interface (development)    | MIPI (2-Lane)  |
| Interface (production)     | FPD-Link III   |
| Output Formats             | 4-phases RAW Frame, Depth Frame, Grayscale Amplitude Frame |
| Framework support          | C++, Python 3.7 or higher, OpenCV, V4L2 driver support     |
| OS Support                 | NVIDIA Ubuntu or REBOTNIX gOS                              |

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The background features a complex digital interface with a central gear icon. The gear is white with a blue grid pattern inside. The interface includes several circular gauges with yellow arcs, a network of blue lines and nodes, and various data labels such as '0.250', '0.215', 'A.01', and 'B'. The overall aesthetic is high-tech and futuristic, with a dark blue and black color palette accented by yellow and white.

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