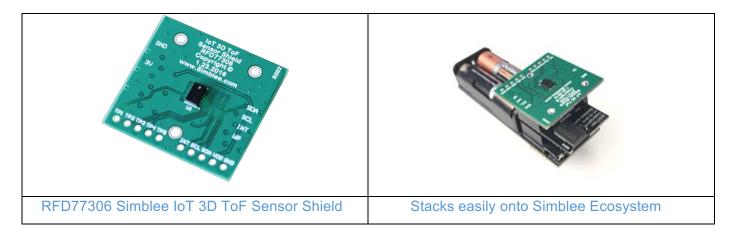


DATASHEET

RFD77306 Simblee IoT 3D ToF Sensor Shield RFD77804 Simblee Wireless IoT 3D ToF Sensor Kit

A Simblee Sensor Shield that plugs directly into the Simblee Ecosystem.



Fully Integrated micro module
Time of Flight Sensor Technology
Accurate distance measurements up to 2 meters
Simple to use SimbleeToF Library
High accuracy and repeatability
I2C interface
Low power

Typical Applications

- Smart Industrial Solutions
- Predictive Maintenance
- Public Spaces
- · Next Gen Kiosks
- Touchless User Interfaces
- Event Triggers
- Traffic Flow Monitoring
- Work Flows and Processes
- Smart Maintenance
- Smart Appliances

- Inventory Management
- · Proximity Detection
- Smart Storage
- Smart Building
- Material Detection



Dimensions: X: 1.2in (30.48mm) Y: 1.2in (30.48mm) Z: 0.45in (11.50mm)

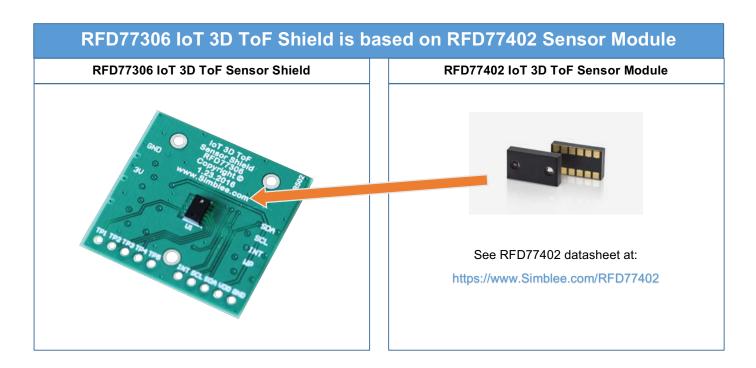
Parameters	MIN	NOM	MAX	Units	NOTES
Measurement Range	100		2000	mm	
Maximum Refresh Rate		10		Hz	
Standby current	9.3	9.7	15	μΑ	
Current consumption	-	7	15	mA	@ full range
Operating Voltage	2.7	3.0	3.3	Vdd	
Pull-up Voltage	1.8	-	Vdd	Vpull-up	
Operating Temperature	-10	-	60	°C	
Temperature not to exceed	-	-	245	°C	
	l	120	: SDA a	and SCL	
V _{IL}	0	-	0.9	V	
V _{IH}	1.2	-	-	V	
V _{OL (@ 3mA)}	-	0.02	-	V	
I _{OL (@ VOL = 0.4V)}	-	8	-	mA	
I2C address					0x4C



Rapid Development & Prototyping Kit







RoHS & REACH Compliance

The RFD77402 module is compliant with the European RoHS Directive 2002/95/EC (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) and REACH (Registration, Authorization and Restriction of Chemicals, European Union Regulation (EC) 1907/2006).

Eye Safety

The RFD77402 module contains a laser emitter and corresponding drive circuitry. The laser output is Class 1 laser safety under all reasonably foreseeable conditions including single faults in compliance with IEC 60825-1:2014. The laser output will remain within Class 1 limits as long as the Simblee recommended device settings are used and the operating conditions specified in this datasheet are respected. The laser output power must not be increased by any means and no optics should be used with the intention of focusing the laser beam.

