

## SP-ToF(1P) Datasheet v1.0



## **Features:**

- Using SP-MOD I2C to communicate with TOF module
- ToF module: The VL53L0X sensor used in this module is an I2C interface and a long distance single point flight time measurement (ToF) sensor. It has high performance and high reliability.
- With the longest distance of 4m and the highest refresh rate of 50Hz
- With the red laser pointer, the laser is activated through XSHUT and connected by SP\_MOD.
- Size :25\*10mm
- Connection method: SP-MOD (2\*4P 2.54mm pin header).



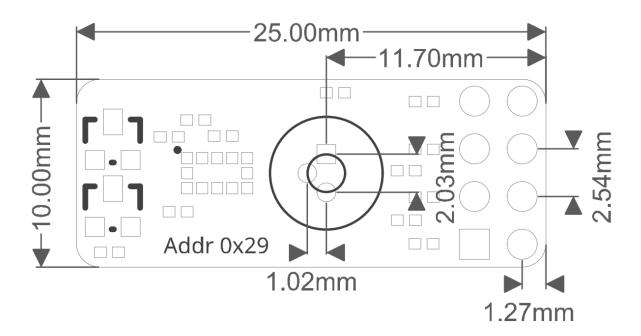
UPDATE	
V1.0	2019/4/6 Published original document

	INTRODUCTION
ToF Module: VL53L0X	Max ranging distance : 4000mm
	Refresh rate : 50Hz
	Measuring angle : 27°
	Communication Interface : I2C
	Supply voltage of external power supply : 2.6V~3.5V
	Range of working temperature : -40°C - 80°C
	Supply current of external power supply : 18mA
	Sleep Status of Current : 5uA
Red laser module	Supply voltage of external power supply : 2.8-3.3V
	Supply current of external power supply: 20mA

HARDWARE FEATURES		
Supply voltage of external power supply	2.8~3.5V	
Supply current of external power supply	<20mA	
Temperature rise	<30K	
Range of working temperature	-40°C ~ 85°C	

SIZE		
Length	25mm	
Width	10mm	
Height	3.15 mm (Excluding the height of pin header :8.7mm)	





PIN DESCRIPTION		
1	GND	Ground
2	IRQ	Interrupt input pin, connected to GPIO1 of VL53L0X
3	NC	Not connected
4	SDA	Receive data signal
5	3V3	Power supply(3.3V)
6	NC	Not connected
7	SHT	Xshutdown pin(active low
8	SCL	Transmit clock signal



RESOURCES		
Official Website	www.sipeed.com	
Github	https://github.com/sipeed	
BBS	http://bbs.sipeed.com	
Wiki	maixpy.sipeed.com	
Sipeed Model Store	https://maixhub.com/	
SDK Reference	dl.sipeed.com/MAIX/SDK	
HDK Reference	dl.sipeed.com/MAIX/HDK	
E-mail(Technical Support)	support@sipeed.com	
Telgram Link	https://t.me/sipeed	
QQ Group	878189804	



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