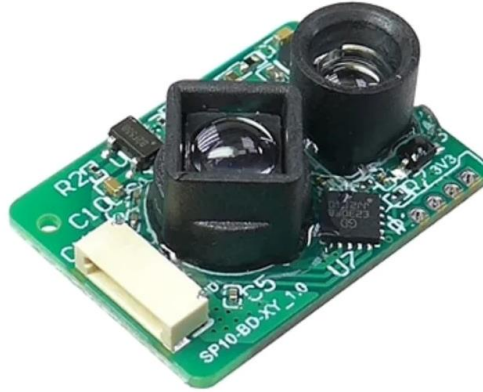




PONO TSD20-20m Single-Point ToF LiDAR Distance Sensor Module



Description:

The PONO TSD20 ToF LiDAR sensor is a compact and efficient distance measurement module built using advanced Direct Time-of-Flight technology. Designed for modern automation systems, it offers accurate and high-speed ranging up to 20 meters with a frequency of 200Hz. Its small size and lightweight structure make it perfect for integration into drones, robots, and industrial devices. The module performs reliably even under strong ambient light conditions, ensuring consistent output. With UART and IIC interfaces, it supports easy communication and system integration. Operating on low power and a 3~3.6V supply, it is suitable for embedded and portable applications. This sensor is an excellent choice for developers looking for a cost-effective, high-performance LiDAR solution.

Features:

1. DTOF (Direct Time-of-Flight) based ranging
2. Measuring range up to 20 meters
3. High-speed 200Hz measurement frequency
4. Compact and lightweight design (2g)
5. Strong ambient light immunity (100KLux)
6. High accuracy with stable repeatability
7. UART and IIC communication support



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8. Low power consumption (<0.2W)

Specifications:

Model:	TSD20
Item Type:	LiDAR Distance Sensor Module
Supply Voltage	3.0V – 3.6V DC
Technology:	DTOF (Direct Time of Flight)
Resolution:	1mm
Frequency	200Hz
Accuracy:	±5cm (<5m), 1% (≥5m)
Interface:	UART / IIC
Ambient light immunity(Klux)	100
Operating Temperature (°C):	-20°C~+60°C
Length (mm):	21
Width (mm):	15
Weight (g):	~2