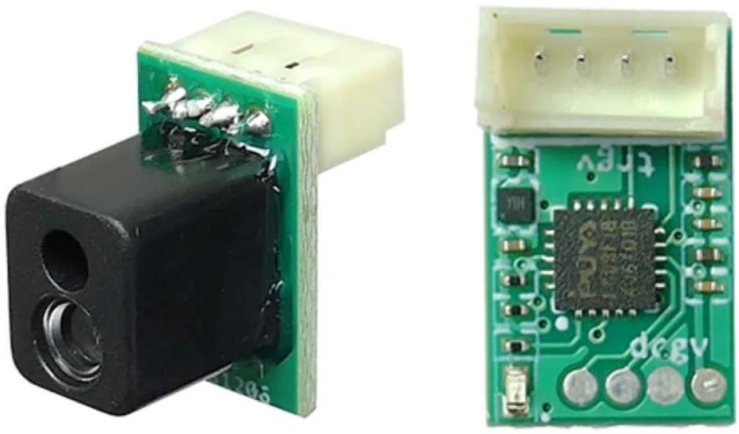
PONO TSD10-10m Single-Point ToF LiDAR Distance Sensor Module



Description:

The PONO TSD10-10m Single-Point ToF LiDAR Distance Sensor Module is a compact and cost-effective ranging solution based on the DTOF principle. Designed for drones, robotics, and industrial automation, it offers reliable distance measurement from 0.05m to 10m with high accuracy and fast 50Hz output. Its strong ambient light immunity ensures stable performance even in bright environments. With UART communication, low power consumption, and ultra-small form factor, this sensor is easy to integrate into embedded systems. Ideal for obstacle avoidance, altitude holding, and safety monitoring, the TSD10 delivers consistent and precise measurements in real-time applications.

Features:

1. DTOF-based precise distance measurement
2. Measuring range up to 10 meters
3. High-speed 50Hz measurement frequency
4. Accuracy ±5cm (<5m), 1% (≥5m)
5. Strong ambient light immunity up to 70Klux
6. Compact and lightweight (1g) design
7. UART communication interface
8. Low power consumption (<0.1W)

Specifications:

Item Type:	LiDAR Distance Sensor Module
Model:	TSD10
Supply Voltage (V):	4.5–5.5V DC
Resolution:	1mm
Distance range	0.05m – 10m
Repeatability	±10mm
Ambient light immunity(Klux)	70
Accuracy:	±5cm (<5m), 1% (≥5m)
Frequency (Hz)	50
Peak Current (mA)	4.5
Length (mm):	12
Width (mm):	7.5
Weight (g):	~10