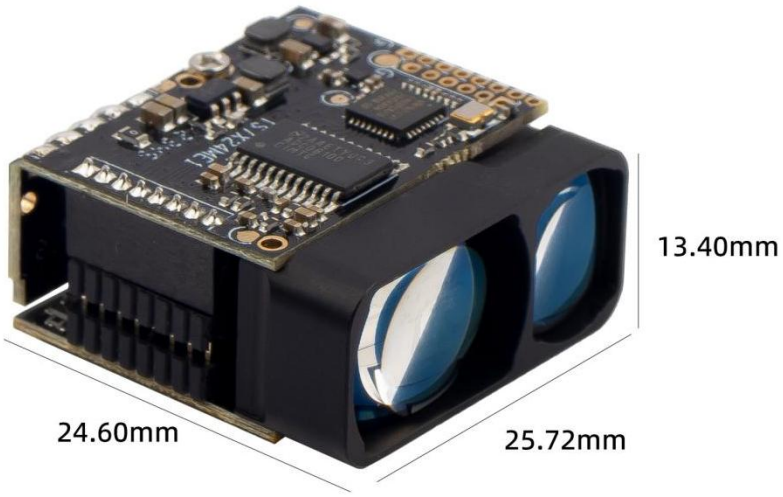
Laser Distance Module-TS1224

Technical Data Sheet



Introduction

TS1224 ranging module is a laser ranging sensor developed based on 905nm semiconductor laser.

It has the characteristics of small size, light weight, strong measurement capability and high measurement accuracy. The sensor has UART (TTL protocol) data

The data transmission interface provides host computer software and communication protocol instruction sets to facilitate secondary development by users.

Specification

Optical specifications	
Part No.	TS 1224
Range	5-2000m (Reflectivity: 1.0, Interference light intensity: 3kLux)
Accuracy	±1m (<200m; >200m@0.5%)
Frequency	1-3Hz (Reflectivity: 1.0, Interference light intensity: 1kLux, Distance: 0.03-10m)
Laser Type	905nm, Invisible
Laser Class	Class I (IEC 60825-1:2014), <0.4mw
Measurement Method	Pulse principle
Electrical specifications	
Input Voltage	DC 3.3V~5V
Power consumption	210mW@3.3V
Communication specifications	
Communication Level	TTL (3.3V)
Interface	UART
BaudRate	Default 115200 bps
Other specifications	
Dimensions	25.72 * 24.6 *13.4mm
Weight	10g
Working Temperature	-20~50℃
Storage Temperature	-40℃～+70℃，10%~95%RH
Certification	RoHS
Warranty	12 months

Note

1. Under poor conditions (such as: dark color, bad reflectivity or atmospheric visibility, strong ambient light, etc.), the measurement accuracy may have small error.
2. Please use the target plate when there is strong sunlight or the target with poor reflection.
3. Before using the product, please read the relevant chapters of installation and operation carefully to prevent damage to the sensor, please contact us if you need more information.
4. Free of Responsibility: INCORRECT using condition and storage condition, and service life of the module is exhausted during warranty period, the warranty will be TERMINATED.