



#### **Overview**

PING<sup>™</sup> is the world's smallest, lightest and most affordable ADS-B receiver. At just 1.5 grams, it implements 'Sense and Avoid' for Drone operations in the national airspace.





#### **Features**

- Detects commercial aircraft threats on 1090MHz and 978MHz within a 100 statute mile radius in real time.
- Reports threats from commercial aircraft in a programmable spherical radius.
- Meets MOPS DO-282B.
- Meets MOPS DO-260B Class A-0.
- Board to board headers or JST-ZH connector.
- Integrated and External Antenna.
- US Patents Pending.
- Based on PING1 transponder IC.
- Connects directly to TELEM2 PX4 interface.

#### Regulatory

• Tested to FCC 47CFR Part 87.

## **Technical Specifications**

Specification	Value			
Input Voltage /	4-6V / 150mW			
Power	· ·			
Size	30x15x3mm			
Weight	1.5 grams			
Receive				
MTL 1090MHz	-84dBm			
Dynamic Range	-81 to 0dBm			
MTL 978MHz	-93dBm			
Dynamic Range	-90 to -3dBm			
Transmit				
1090MHz	1/2W S/W disabled			
978MHz	1/2W S/W disabled			
Interfaces				
MavLINK Serial 57600bps				

## **Quality Standards and Procedures**

Designed and assembled in the USA, HALT and HASS tested, IPC-610 class II soldering, production functional testing. Software D.A. to DO-178B, Hardware D.A. to DO-252 Class C.





# **Electrical Specification.**

Mating Connector: JST ZHR-4

Pins: SZH-002T-P0.5

Pin	Туре		Color
1	Input (5V tolerant)	MavLINK RXD	Red
2	Output	MavLINK TXD	Black
3	Power	4-6V	Black
4	Ground	GND	Black

## Antenna Mating Connector: Molex 0731160024

# **Mechanical Specification.**



#### **Actual Size**





