

Overview

pingRX is the world's smallest, lightest and most affordable Automatic Dependent Surveillance – Broadcast (ADS-B) receiver. At just 5 grams, it assists with Detect and Avoid (DAA) for Unmanned Aircraft Systems (UAS) operations in the National Airspace System (NAS). pingRX receives ADS-B IN on 1090MHz and 978MHz.



Features

- Detects ADS-B equipped aircraft on 1090MHz and 978MHz within a 100-statute mile radius in real time
- Meets RTCA DO-282B
- Meets RTCA DO-260B Class A0
- U.S. Patents Pending
- Compatible with Pixhawk/ARDUPILOT based autopilots. Connects directly to TELEM2 PX4 interface

Regulatory

- Tested to FCC 47CFR Part 87.

Quality Standards and Procedures

Designed and assembled in the U.S., HALT and HASS tested, IPC-610 class II soldering, production functional testing.

Technical Specifications

Specification	Value
Input Voltage / Power	4-6V / 80mA
Size	34x19x8mm
Weight	5 grams
Receive	
MTL 1090MHz	-84dBm
Dynamic Range	-81 to 0dBm
MTL 978MHz	-93dBm
Dynamic Range	-90 to -3dBm
Interface	
<ul style="list-style-type: none"> • MavLINK Serial 57600bps 	

Electrical Specification

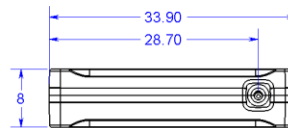
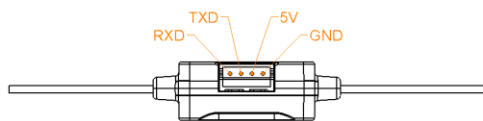
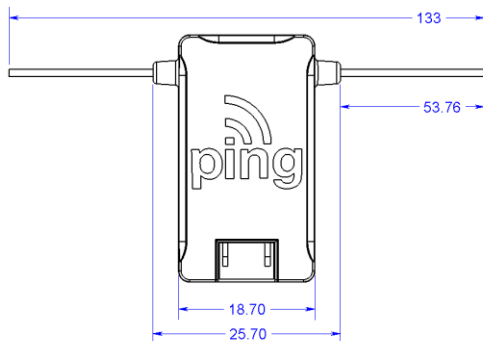
Mating Connector: JST ZHR-4

Pins: SZH-002T-P0.5

Pin	Type		Color
1	NC		Black
2	Output	GDL90 TXD	Black
3	Power	4-6V	Red
4	Ground	GND	Black

Antenna Mating Connector: Molex 0731160024

Mechanical Specification



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