PingStation ADS-B Dual Receiver

Overview

pingStation is a dual band (978MHz and 1090MHz), networkable Automatic Dependent Surveillance – Broadcast (ADS-B) receiver with a Power-Over-Ethernet (POE) interface enclosed in an IP67 rated protective enclosure. PingStation provides ground, surface, or low-altitude ADS-B surveillance within line of sight of the antenna, with range dependent upon the output power of the transmitting ADS-B transceiver. pingStation is robust enough to be permanently mounted outdoors in harsh environmental conditions, and small enough to be used as a mobile asset for roaming operations. Installation is simple with included pole-mount bracket, and a single POE cable which provides both power and data communications. An integrated GPS provides precision timestamping for messaging.

Multiple pingStations may be networked together to provide a wide area low-altitude surveillance volume. Data messages are in JSON format as described within the pingStation ICD.

Features

- Detects ADS-B equipped aircraft on 1090MHz and 978MHz in real time.
- Based on exclusive Ping™ Silicon Radio
- Meets or exceeds all receive performance requirements specified by DO-282B and DO-260B
- Environmentally protected enclosure with adaptable mounting options
- Simple power and connectivity options using Power over Ethernet (POE)
- Wide variety of local and cloud-based interface options
- Network multiple receivers to enable a wide area low-altitude surveillance network
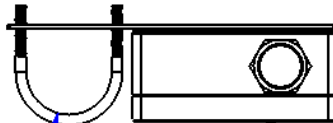- US patents pending

Technical Specifications

Specification	Value
Input Voltage / Power	44-57V / 500mW Power over Ethernet
Size	4.75"X2.0"X3.25" (box) 9.5" (antenna)
Weight	340 grams
Receive	
MTL 1090MHz Dynamic Range	-88dBm -79 to 0dBm
MTL 978MHz Dynamic Range	-93dBm -90 to -3dBm
Interfaces	
• Ethernet (JSON UDP)	
• Compressed VRS (Virtual Radar Server)	

![uAvionix logo]
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![pingStation logo]

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Electrical Specification

Data / Power Connector: RJ-45 POE

Mechanical Specification

RSUPPORTS 0.75"-2"PIPE

230.22

58.50

54.70

82

IP67 RJ-45
POE

122

196.15

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