



### **Overview**

pingStation3 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. PingStation3 provides ground, surface, or low-altitude ADS-B surveillance. pingStation3 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 the included pole-mount bracket, and a single POE cable that provides both power and data communications. An integrated GPS provides precision timestamping for messaging.

Multiple pingStation3 may be networked together to provide a wide area low-altitude surveillance volume. Data messages options are available, including ASTERIX CAT021, JSON, and Compressed VRS format as described within the pingStation3 ICD.

#### **Features**

- Detects ADS-B equipped aircraft on 1090MHz and 978MHz in real time.
- Internal GPS provides high resolution timestamp messaging.
- Based on exclusive Ping<sup>TM</sup> Silicon Radio
- IP67 rated environmentally protected enclosure
- Simple power and connectivity options using Power over Ethernet (POE)
- Multiple data format options
- Network multiple receivers to enable a wide area low-altitude surveillance network



# **Technical Specifications**

Specification	Value	
Input Voltage /	44-57V / 500mW	
Power	Power over Ethernet	
Size	7.0"x1.4"x26.5"	
Weight	545 grams	
Operating	-40°C to 65°C	
Temperature		
Ingress Protection	IP67	
Receive		
MTL 1090MHz	-88dBm	
Dynamic Range	-79 to 0dBm	
MTL 978MHz	-93dBm	
Dynamic Range	-90 to -3dBm	
Interfaces		
ASTERIX CAT021		
Ethernet (JSON UDP)		
Compressed VRS (Virtual Radar Server)		
Loading		
Wind Rating	150 mph (Cat5) / 21.5 lbs	

EAR99 UAV-1006079-001 Rev C



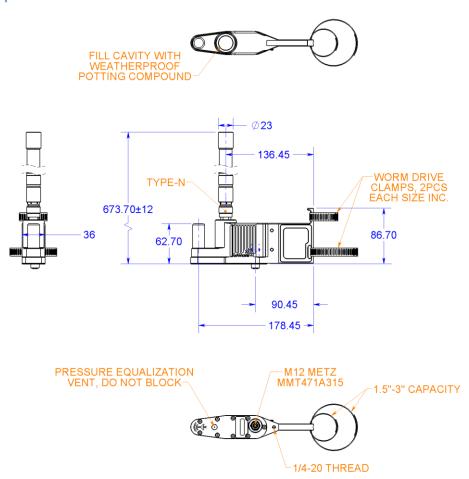


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## Data / Power Connector: RJ-45 POE 802.3af

Parameter	Value
Standard	803.3af (802.3at Type1)
Maximum power	15.4W
Voltage Range	37 – 57V
Maximum Current	350mA
Maximum Cable Resistance	20Ω
Supported Cabling	Shielded Cat 3 and Shielded Cat 5
Supported Modes	Mode A (endspan), Mode B (midspan)
Power Management	Power Class 0
Maximum Cable Length	100 meters

## **Mechanical Specification**



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