

### INNOVATIVE LOW COST SURVEILLANCE SOLUTIONS

**PlaneTRack**, **DroneTRack**, and **VesselTRack** are part of a family of professional 1U/2U, 10/19-inch rack-mounted ground station kits designed for cost-effective industrial and defense (naval) surveillance applications.

These systems integrate advanced signal reception and processing technology, offering exceptional long-range RF sensitivity, rapid decoding, and versatile data output formats via a unified network interface.

Featuring an open software architecture, the kits can be easily customized to meet specific client requirements.

**PlaneTRack Type B10** is a cost-efficient, professional 2U 10-inch ADS-B ground station tailored for monitoring ADS-B-equipped aircraft.

### APPLICATION EXAMPLES

- Surveillance of industrial complexes, such as power stations, offshore wind farms, critical infrastructure
- Enhancement of AIS surveillance systems on vessels and land based
- Support for mobile and stationary defense systems

### PLUG-AND-PLAY KIT

**PlaneTRack Type B10** is supplied as a complete ready-to-install system kit. It comes with a rugged ADS-B antenna and GPS antenna/clamp by AMPHENOL PROCOM for harsh environment, and an antenna line surge protector by CITEL. Also we offer a display software from CAMBRIDGE PIXEL as an option.



### KEY FEATURES

- **Industry grade 1090 MHz ADS-B receiver, processor and decoder**
- **Standard 10 inch 2U enclosure**
- **9-72VDC or 115-230VAC Power Supply**
- **Full network connectivity (Ethernet)**
- **Variety of data output formats**
- **Open software architecture for tailored solutions**
- **Accessories from well-known manufacturers**

### UNIFIED DATA FORMATS

**PlaneTRack**, **DroneTRack** and **VesselTRack** systems provide standardized data output formats, enabling seamless integration into shared downstream processing and visualization systems. For example aircraft data can be transmitted to vessel systems in NMEA/IEC format, while vessel data to aircraft systems in ASTERIX format.

### RELATED PRODUCTS

**PlaneTRack B** - 19" 2U ADS-B Ground Station

**PlaneTRack BDM** - redundant power supply

**PlaneTRack R1U** - set of redundant units

**DroneTRack** - Ground station for UAV&small aircraft signal reception

**VesselTRack** - AIS Rx Ground Station

## ADS-B RECEIVER/DECODER

RF input	N(f) conn., 50 Ohms, max. 0 dBm
RF filter	Cavity type 0.1 MHz @ -0.5 dB, 4 MHz @ -3 dB, 35 MHz @ -30 dB
Frontend stage	Sensitivity >-93 dBm, dyn. range 75 dB, SAW filters
Data Processor	Linux/Debian LTS OS, 32-bit CORTEX A8, 1 GHZ clock, 512 MB RAM, 1 GB Flash
Data Decoder	ICAO Annex 10 Vol IV, DO260/A/B, DOC 9871, ED-129, ED-102/A; ADS-B, Mode-S, ACAS

## MECHANICAL AND ENVIRONMENTAL

Enclosure	H:88 mm, W:436/483 mm, D: 210/254 mm
Weight	5.5 kgs incl. accessories
Temperature	indoor components: -10°..+60°C; outdoor components: -30°..+70°C
Classification	indoor components: IP30; outdoor components: IP66
Cooling	natural convection

## INTERFACES

Network	Ethernet RJ45 with Surge Protector IEC 61643-21,
GPS	N(f) 5V DC
Data protocols	Push: UDP; Pull: TCP, HTTP; Time: NTP
Data formats	Raw, JSON, Asterix CAT021, 023, 247, CSV, NMEA/IEC, REST API
Power	115/230VAC IEC socket - or - 12VDC or option 24VDC, 48VDC, ca. 1.1 W, Amphenol plug
Maintenance	USB Type A PC maintenance port
Earth	Bolt M5

## SERVICE AND COMPLIANCE

Warranty	6 months or option 24/36/48 months
MTBF	> 60.000 h
Markings	CE, FCC, ACMA, RoHS, WEEE

## SUPPLIED OUTDOOR ACCESSORIES

ADS-B antenna	N(f) conn., 50 Ohms, 2.2 dBi, length 0.55m, rugged for maritime environment, <b>Amphenol Procom</b>
GPS antenna	N(f) conn., 5V DC, length 0.25 m, rugged for maritime environment, <b>Amphenol Procom</b>
ADS-B line surge protector	2xN(f) conn., IEC 61342-21, 7.5V / 70V, 10 kA (8/20 µs), 100 A (10/1000 µs), <b>CITEL</b>

## OPTIONS

F, G	24VDC, 48VDC ext. operating voltage
H	Extended temp. range -30°..+70°C for indoor components
K	External PSU 115/230VAC for DC supply
Q	Active ADS-B antenna >17 dB gain
R	ASD-VIEW radar software client by <b>Cambridge Pixels</b>
S	SNMP client V2c, V3
W, X, Y	Extended warranty 24, 36, 48 months

