

PlaneTRack Type B 19" 2U Aircraft ADS-B Ground Station

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.

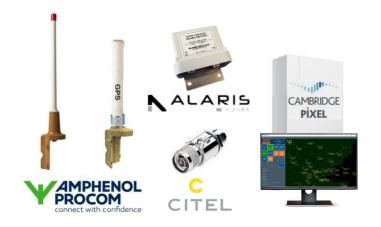
PlaneTRack Type B is a cost-efficient, professional 2U 19-inch ADS-B ground station tailored for monitoring ADS-B-equipped aircraft.

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 B 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 mast pramp from ALARIS KUHNE and display software from CAMBRIDGE PIXEL as options.





KEY FEATURES

- Industry grade 1090 MHz ADS-B receiver, processor and decoder
- Standard 19 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 BDM - redundant power supply PlaneTRack B10 - compact 10" 2U rack insert PlaneTRack R1U - set of redundant units DroneTRack - Ground station for UAV&small aircraft signal reception VesselTRack - AIS Rx Ground Station

DATASHEET

PlaneTRack Type B

	DECEIN	IED /	DECO	DED
ADS-B	RECEIN		DEUU	υεκ

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

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	12VDC or option 24VDC, 48VDC, ca. 1.1 W, Amphenol plug
Main- tenance	USB Type A PC maintenance port
Earth	Bolt M5

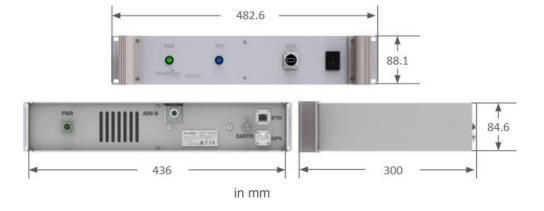
SUPPLIED OUTDOOR ACCESSORIES

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

MECHANICAL AND ENVIRONMENTAL	
Enclosure	H:88 mm, W:436/483 mm, D: 266/300 mm
Weight	5.5 kgs incl. accessories
Tempe- rature	indoor components: -10°+60°C; outdoor components: -30°+70°C
Classi- fication	indoor components: IP30; outdoor components: IP66
Cooling	natural convection

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

OPTIONS	
F, G	24VDC, 48VDC ext. operating voltage
Н	Extended temp. range -30°+70°C for indoor components
К	External PSU 115/230VAC for DC supply
Ρ	Dual power supply, <i>Alaris Kuhne</i> internal bias-tee and external mast amplifier for ADS-B > 30dB gain
Q	Active ADS-B antenna >17 dB gain
R	ASD-VIEW radar software client by <i>Cambridge</i> <i>Pixels</i>
S	SNMP client V2c, V3
W, X, Y	Extended warranty 24, 36, 48 months





Planevision Systems GmbH - Gewerbering 8 - 22113 Oststeinbek - Germany https://planevision.systems - mail@planevision.de