

PlaneTRack Type B10

10" 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 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	
Tempe-	indoor components: -10°+60°C;	
rature	outdoor components: -30°+70°C	
Classi-	indoor components: IP30;	
fication	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
Main- tenance	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, Amphenol Procom	
GPS antenna	N(f) conn., 5V DC, length 0.25 m, rugged for maritime environment, <i>Amphenol 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), <i>CITEL</i>	

OPTIONS	
F, G	24VDC, 48VDC ext. operating voltage
Н	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 <i>Cambridge Pixels</i>
S	SNMP client V2c, V3
W, X, Y	Extended warranty 24, 36, 48 months



