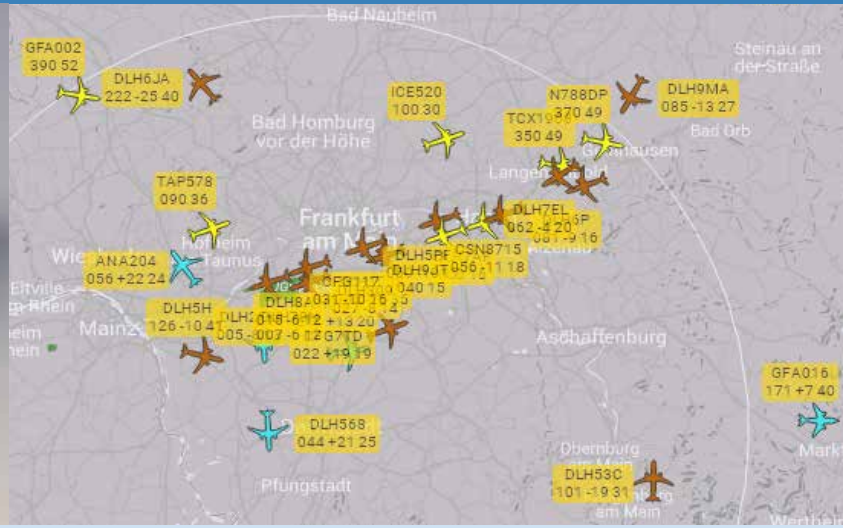# PlaneTRack - 19" Professional ADS-B Receivers and Accessories for Land, Maritime and Offshore Applications

The solution for receiving, decoding and distributing aircraft position, altitude, speed, track and other essential flight data.

**PlaneTRack Type B**
19" ADS-B Receiver with built-in decoder

**PlaneTRack Type BDM**
19" ADS-B Receiver with Dual Independant Power Supplies

**PlaneTRack Type RDM**
Fully redundant 19" ADS-B Receiver with Dual Independant Power Supplies

Planevision
SYSTEMS

**Type B: our basic receiver with economical setup**
- industry grade power supply
- narrow-band RF frontend filter
- ADS-B processor with network interface

**Type BDM: best choice for operations in dual supply environments**
- dual independant power supplies
- priority and backup circuitry

**Type RDM: superior solution for special operations**
- two independant Type B receivers in one 19" insert
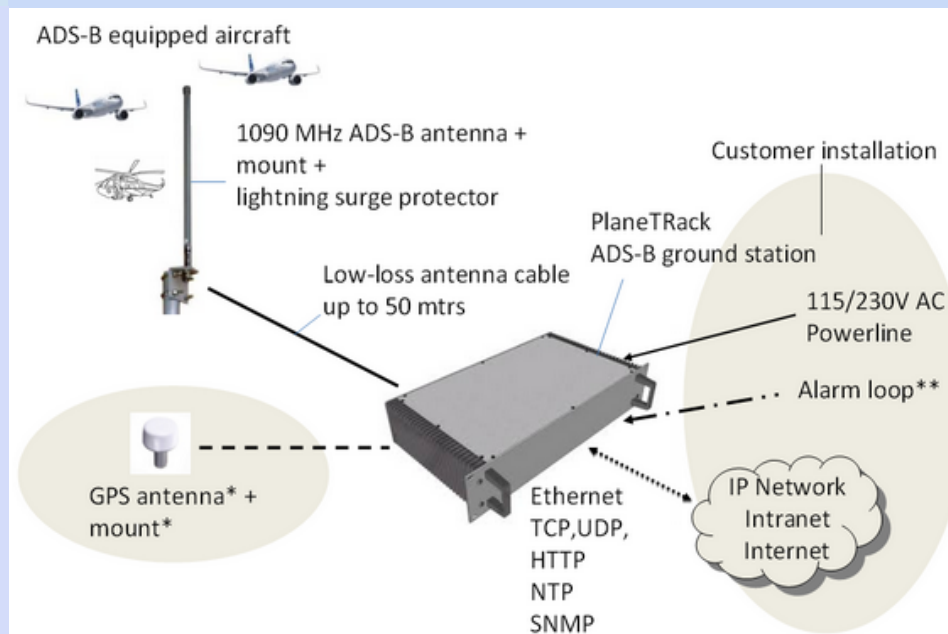- power supplies as Type BDM

**Our receiver options**
- Industrial option with SNMP monitoring and alarm loop contact
- Asterix (Eurocontrol format) output data option
- Detailed Mode-S data output
- Maritime/remote area/extended temperature range packages
- Multilateration for Mode-S aircraft

**Our service options**
- Extended warranty - 24 or 48 months
- Component Exchange Services - 48 hours in/out - Express shipment
- Preemptive Pool Access - for remote area replacement

**Our accessories**
- 1090 MHz ADS-B Antenna 3dBi
- 1090 MHz active ADS-B Antenna 21dB LNA gain
- 1090 MHz ADS-B Antenna/mount for Maritime Operations; material: AISI316; certified incl. MIL-STD-810G-509.5 (salt fog)
- 1575 MHz GPS antenna, active, with rugged mounting bracket
- 1/2" super-flex coax cable, -1.1 dB/10m
- 3/8" medium-flex coax cable, -1.4 dB/10m
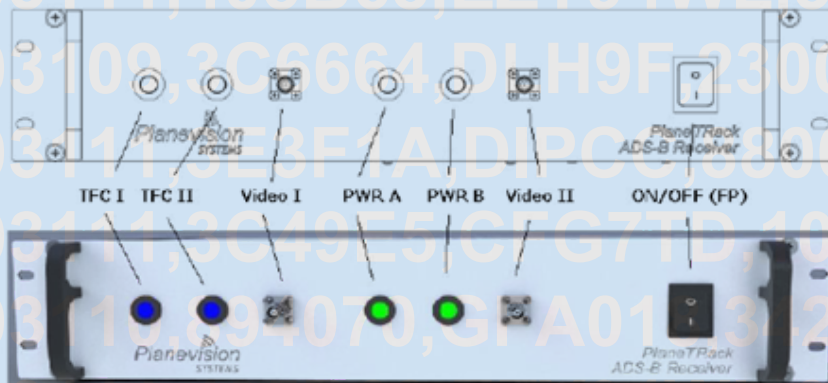- Gas tube surge protectors for ADS-B and GPS antenna lines

ADS-B equipped aircraft

1090 MHz ADS-B antenna + mount + lightning surge protector

Low-loss antenna cable up to 50 mtrs

Customer installation

PlaneTRack ADS-B ground station

115/230V AC Powerline

Alarm loop**

GPS antenna* + mount*
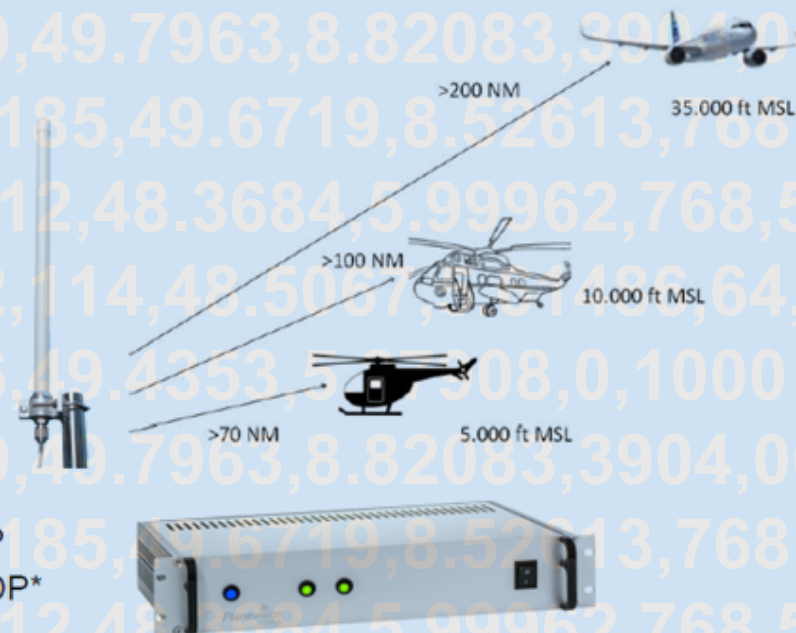
Ethernet TCP,UDP, HTTP NTP SNMP

IP Network Intranet Internet

# Best economical solution for Airport, Land and Maritime Operations
# Experience from 6,000+ installations of ADS-B Receivers worldwide

- Highly sensitive RF frontend processor (50 Ohms, N connectors)
- High-speed A/D converter and FPGA packet assembler
- Mechanical input filter with DC short protection
- 50 Ohms BNC Video Out for site survey
- Integrated GPS receiver for precise timestamps (accuracy 15 ns)
- ADS-B decoder compliant to ICAO Annex 10, DO-260/A/B, DOC 9871, Eurocae ED-129A
- Additional decoding of Mode-S and TCAS frames
- Variety of data output formats via network interface
  - Undecoded binary raw data via TCP or UDP
  - Fully decoded data in ASCII, CSV or JSON formats via HTTP
  - Eurocontrol Asterix CAT021 V0.23, 1.8 and 2.4 format via UDP*
  - Built-in Google Maps/Earth server for test purposes

>200 NM — 35.000 ft MSL
>100 NM — 10.000 ft MSL
>70 NM — 5.000 ft MSL

TFC I   TFC II   Video I   PWR A   PWR B   Video II   ON/OFF (FP)

Planevision SYSTEMS
PlaneTRack ADS-B Receiver

- Industry grade 19" 2U enclosure from aluminum, VDE and CE compliant
- Integrated Ethernet surge protector
- Industry grade high reliability power supply, MTBF 20 years
- Remote configuration access (SSH and HTTP)
- SNMP V2c status interrogation and traps*
- Alarm loop potential-free contact*
- Very low power consumption < 20W
- Fully CE/FCC certified for EMC and LVD (EN60950-1) - CE DoC
- Industry compliant customized documentation

## Plug'n'Play for Standard Industry 19" Racks
## Seamless 365 / 24 / 7 Low Power Operations - no PC required

| PlaneTRack | Type B | Type BDM | Type RDM |
|---|---|---|---|
| ADS-B processors | 1 | 1 | 2 |
| Power supplies | 1 | 2 | 2 |
| RF input/ frontend filters | 1 | 1 | 2 |
| Network interfaces | 1 | 1 | 2 |
| BNC Video Outputs | 1 | 1 | 2 |
| Enclosure width | 19" | 19" | 19" |
| Enclosure height | 2U | 2U | 2U |
| Enclosure depth | ca. 300mm | ca. 300mm | ca. 300mm |
| Weight | ca. 4.7 kg | ca. 4.9 kg | ca. 5.3 kg |
| Power supply (VAC) | 88 ~ 264 | 88 ~ 264 | 88 ~ 264 |
| Power consumption | 15W | 15W | 25W |
| IP addresses | 1 | 1 | 2 |

**More Data**

| | |
|---|---|
| Power input frequency | 47 ~ 63 Hz |
| Antenna input impendance | 50 Ohms |
| RF frontend filter passband attenuation | < 0.5 dB |
| Input filter bandwidth | < 9 MHZ @ 3 dB |
| Internal antenna surge protection | DC short inside frontend filter |
| Ethernet type | Cat. 5e, 10/100BaseTX |
| Surge protection clamping voltage | 7.5V / 70V, IEC 6164321 |
| Max. surge discharge current | 10 kA (8/20 µs) |
| Peak pulse current | 100 A (10/1000 µs) |
| Data protocols | TCP, UDP, HTTP |
| Configuration protocols | HTTP/HTML, SSH, SFTP |
| IP address | DHCP or fixed |
| SNMP base object (Version 2c)* | 1.3.6.1.4.1.45919.1.120.1 |
| Alarm contact* | max. 24V/1A, potential free |
| Decoder output formats | Raw data, ASTERIX Cat 021 V0.23*, Cat 023, Cat 247*, ASCII CSV, ASCII JSON, KML, KMZ, customized |

**Planevision Systems GmbH - Grellkamp 6b - 22113 Oststeinbek - Germany**
**Tel. +49-40-7131040 - Fax +49-40-6558 4005 - http://plane.vision**

Planevision
SYSTEMS