





PlaneTRack Type BDM



19" ADS-B Receiver with dual redundant power supplies

ADS-Receiver	ADS-B antenna(s) and clamp(s)	GPS antenna(s) and clamp(s)	Antenna line surge protectors
			

PlaneTRack Type BDM is an ADS-B receiving systems with a dual redundant AC power supply, one ADS-B antenna/clamp, one GPS antenna/clamp and two antenna line surge protectors.

PlaneTRack Type BDM is the ideal solution for receiver sites that require power fallback redundancy (e.g. offshore sites).

Available Options:

010	Maritime/offshore rugged version	06x	Airborne option (DO-160)
020	Extended temperature range -20°...+80°C	070	Radar display software for MS Windows
030	Industry package with SNMP client and alarm contact	08x	Extended warranty 24/48 months
035	High gain active antenna +21dB	090	Exchange service/Pool access
04x	Internal DC/DC power supply 12/24/48V		Antenna cables, connectors and adapters
05x	Data options for Asterix and Mode-S Enhanced Surveillance		



Specification:

<p>ADS-B receiver</p> <ul style="list-style-type: none">- High performance ADS-B Receiver (SAW frontend, ADC, FPGA and Linux Single Board Computer driven)- System processor 32-bit Cortex A8, 1GHz, 4 GB Flash- Operating system: Debian 8 Kernel 4.1 (LTS)- Power up boot delay: < 45 secs- Sensitivity at each receiver antenna port: better than -93 dBm- Mechanical RF frontend filters with DC short protection, passband attenuation: < 0.5 dB- RF filter bandwidth: < 9MHz @ -3 dB <p>Antennas and accessories</p> <ul style="list-style-type: none">- ADS-B antenna passive: 5 dBi gain; N-female connectors, VSWR 1.5 max, length 0.55m, base from chromed brass- Antenna clamp, max. 32 mm mast diameter, aluminium- ADS-B antenna connector: N female- ADS-B antenna input impedance: 50 Ohms- GPS antennas active 5VDC, length ca. 0.25 m- GPS antenna connector: N female- 2 Lightning protection gas surge protectors, N-female connectors (to be mounted outside enclosure) <p>Firmware/Software</p> <ul style="list-style-type: none">- Complete ADS-B decoder compliant to ICAO Annex 10, DO260/A/B, DOC 9871, ED129A et.al.- Decoder latency to output: < 10 ms- Packet throughput: > 2.500 packets/sec- Additional decoding of Mode-S and TCAS frames- Variety of decoder output formats via network interface<ul style="list-style-type: none">○ Undecoded raw data○ Fully decoded data in ASCII CSV or JSON formats○ Built-in Google Maps/Earth or OpenStreetMaps server for test purposes- Decoder output available as push (stream) or pull (table call) data	<p>Network interface</p> <ul style="list-style-type: none">- Ethernet port, network connection: Cat. 5e, 10/100 Base TX, RJ-45- Data protocols: UDP/IP, TCP/IP, HTTP- Ethernet surge protector, 7.5/70V, 10kA/ 20µs, 100A/1ms, IEC 61643-21 <p>Power supply and earthing</p> <ul style="list-style-type: none">- IEC 60320 C-14 power connectors with integrated power switch- 2 industrial grade power supply units with 20 years MTBF, input voltage 110-230 VAC, surge withstand 300VAC, input frequency 50/60 Hz- Automatic power switchover circuitry- M8 bolt for protective earth connection <p>Mechanical data</p> <ul style="list-style-type: none">- 1 Industry grade 19" 2U enclosure from aluminum, VDE and CE compliant- 3 Control lamps for Traffic and Power on front panel- 1 Standby switch on front panel- 1 Raw data video out BNC female on front panel- 1 USB type A maintenance port on front panel- Dimensions of enclosure: W: 439/479mm, H: 87 mm, D: 300/355 mm- Weight 19" enclosure: ca. 5.2 kgs, all components delivered: ca .6.5 kgs <p>Environment</p> <ul style="list-style-type: none">- Ambient temperature range 0 - 40°C- Relative humidity: < 80%- Cooling: natural convection- Enclosure ingress classification: IP52 <p>Miscellaneous</p> <ul style="list-style-type: none">- Individual operating and maintenance manual- CE marking including EMC and EN60950-1 compliance- License for commercial use- MTTF > 60,000 hrs <p>Service and Warranty</p> <ul style="list-style-type: none">- Premium customer support- 6 months from delivery
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