

## PlaneTRack Type RDM



### Dual independant 19" ADS-B Receiver and Accessories

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

**PlaneTRack Type RDM** is a fully redundant ADS-B receiving systems with an dual independant channel ADS-B receiver, dual redundant AC power supply, two ADS-B antennas/clamps, two GPS antennas/clamps and four antenna line surge protectors.

**PlaneTRack Type RDM** is the ideal solution for receiver sites that require full redundancy or dual antennas that are required due to partially obstructed views.

#### 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><b>ADS-B receivers</b></p> <ul style="list-style-type: none"><li>- 2 High performance ADS-B Receivers (SAW frontend, ADC, FPGA and Linux Single Board Computer driven)</li><li>- System processor 32-bit Cortex A8, 1GHz, 4 GB Flash</li><li>- Operating system: Debian 8 Kernel 4.1 (LTS)</li><li>- Power up boot delay: &lt; 45 secs</li><li>- Sensitivity at each receiver antenna port: better than -93 dBm</li><li>- 2 mechanical RF frontend filters with DC short protection, passband attenuation: &lt; 0.5 dB</li><li>- RF filter bandwidth: &lt; 9MHz @ -3 dB</li></ul> <p><b>Antennas and accessories</b></p> <ul style="list-style-type: none"><li>- 2 ADS-B antennas passive: 5 dBi gain; N-female connectors, VSWR 1.5 max, length 0.55m, base from chromed brass</li><li>- 2 antenna clamps, max. 32 mm mast diameter, aluminium</li><li>- 2 ADS-B antenna connectors: N female</li><li>- ADS-B antenna input impedance: 50 Ohms</li><li>- 2 GPS antennas: active 5VDC, length ca. 0.25 m</li><li>- 2 GPS antenna connectors: N female</li><li>- 4 Lightning protection gas surge protectors, N-female connectors (to be mounted outside enclosure)</li></ul> <p><b>Firmware/Software</b></p> <ul style="list-style-type: none"><li>- Complete ADS-B decoder compliant to ICAO Annex 10, DO260/A/B, DOC 9871, ED129A et.al.</li><li>- Decoder latency to output: &lt; 10 ms</li><li>- Packet throughput: &gt; 2.500 packets/sec</li><li>- Additional decoding of Mode-S and TCAS frames</li><li>- Variety of decoder output formats via network interface<ul style="list-style-type: none"><li>○ Undecoded raw data</li><li>○ Fully decoded data in ASCII CSV or JSON formats</li><li>○ Built-in Google Maps/Earth or OpenStreetMaps server for test purposes</li></ul></li><li>- Decoder output available as push (stream) or pull (table call) data</li></ul>	<p><b>Network interface</b></p> <ul style="list-style-type: none"><li>- 2 Ethernet ports, network connection: Cat. 5e, 10/100 Base TX, RJ-45</li><li>- Data protocols: UDP/IP, TCP/IP, HTTP</li><li>- 2 Ethernet surge protectors, 7.5/70V, 10kA/20µs, 100A/1ms, IEC 61643-21</li></ul> <p><b>Power supply and earthing</b></p> <ul style="list-style-type: none"><li>- 2 IEC 60320 C-14 power connectors with integrated power switch</li><li>- 2 industrial grade power supply units with 20 years MTBF, input voltage 110-230 VAC, surge withstand 300VAC, input frequency 50/60 Hz</li><li>- 1 automatic power switchover circuitry</li><li>- 1 M8 bolt for protective earth connection</li></ul> <p><b>Mechanical data</b></p> <ul style="list-style-type: none"><li>- 1 Industry grade 19" 2U enclosure from aluminum, VDE and CE compliant</li><li>- 4 Control lamps for Traffic and Power on front panel</li><li>- 1 Standby switch on front panel</li><li>- 1 Raw data video out BNC female on front panel</li><li>- 1 USB type A maintenance port on front panel</li><li>- Dimensions of enclosure: W: 439/479mm, H: 87 mm, D: 300/355 mm</li><li>- Weight 19" enclosure: ca. 5.2 kgs, all components delivered: ca. 6.8 kgs</li></ul> <p><b>Environment</b></p> <ul style="list-style-type: none"><li>- Ambient temperature range 0 - 40°C</li><li>- Relative humidity: &lt; 80%</li><li>- Cooling: natural convection</li><li>- Enclosure ingress classification: IP52</li></ul> <p><b>Miscellaneous</b></p> <ul style="list-style-type: none"><li>- Individual operating and maintenance manual</li><li>- CE marking including EMV and EN60950-1 compliance</li><li>- License for commercial use</li><li>- MTTF &gt; 60,000 hrs</li></ul> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"><li>- Premium customer support</li><li>- 6 months from delivery</li></ul>
---	---