

## PlaneTRack Type BDM (2024)



### 19" 2U ADS-B Receiver Kit and Options

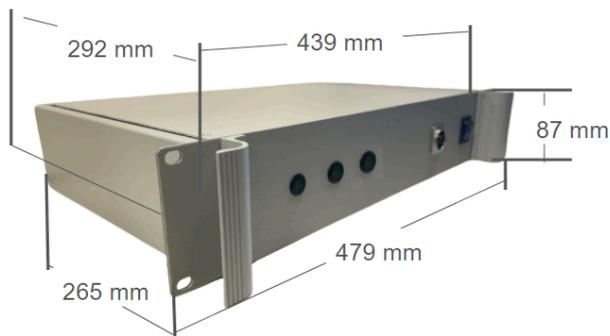
ADS-B Receiver 19" 2U Single power supply	ADS-B antenna and clamp by <b>AMPHENOL</b>	GPS antenna and clamp by <b>AMPHENOL</b>	Antenna line surge protector by <b>CITEL</b>
			

**PlaneTRack Type BDM** is a complete professional ADS-B receiving system kit with a dual redundant DC power supplies, one rugged environment ADS-B antenna and GPS antenna/clamp and one antenna line surge protector.

**PlaneTRack Type BDM** is the ideal solution for dual power receiver sites that require 19" plug-n-play rack inserts.

### Available Options

<b>E,F,G</b>	12V, 24V or 36V DC power supply <b>(Mandatory selection)</b>	<b>J</b>	Data output options for Asterix CAT021 V1.8/2.4
<b>KK</b>	115/230V AC/DC desktop power supplies (Operating temperature -30°-+70°)	<b>R</b>	Radar display software <b>ASD-VIEW</b> by CAMBRIDGE PIXEL
<b>C</b>	SNMP Software client	<b>W,X,Y</b>	Extended warranty 24/36/48 months



## Specification:

<p><b>ADS-B receiver</b></p> <ul style="list-style-type: none"><li>- High performance ADS-B Receiver (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: Linux Debian</li><li>- Power up boot delay: &lt; 45 secs</li><li>- Sensitivity at each receiver antenna port: better than -93 dBm, dynamic range &gt;73 dB</li><li>- RF frontend cavity filter 1090 MHz +/-0.1 MHz, with DC short protection, passband attenuation: &lt; 0.5 dB</li><li>- Filter bandwidth: +/-4 MHz @ -3 dB, +/-35MHz @-30 dB</li></ul> <p><b>Antennas and accessories</b></p> <ul style="list-style-type: none"><li>- ADS-B antenna passive: 2.2 dBi gain; length 0.55m, base from aluminium coated; integrated antenna clamp</li><li>- ADS-B antenna connector: N female</li><li>- ADS-B antenna input impedance: 50 Ohms</li><li>- GPS antenna active 5V DC, length ca. 0.25 m</li><li>- GPS antenna connector: N female</li><li>- 1 Lightning protection gas surge protector, N-female connector (to be mounted outside enclosure for ADS-B antenna line)</li></ul> <p><b>Firmware/Software</b></p> <ul style="list-style-type: none"><li>- Complete ADS-B decoder according to ICAO Annex 10 Vol IV, DO260/A/B, DOC 9871, ED129 (App. M) etc</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 (REST API)</li><li>● Asterix CAT021 V0.23, 0.26; (1.8. 2.4 by option)</li><li>● Built-in Google Maps/Earth or OpenStreetMaps server</li></ul></li><li>- Decoder output available as push (TCP stream, UDP) or pull (REST http table call) data</li></ul> <p><b>Order code: 520-XX-Y</b> X: E or F or G Y: other options</p>	<p><b>Network interface</b></p> <ul style="list-style-type: none"><li>- Ethernet port, network connection: Cat. 5e, 10/100 Base TX, RJ-45</li><li>- Data protocols: UDP/IP, TCP/IP, HTTP</li><li>- Ethernet surge protector, 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>- Power supply 12VDC (9-18V) or 24VDC (18-36V) or 48VDC (36-72VDC)</li><li>- Optional external desktop PSU 115/230V AC 50/60Hz (temp. limited to -30°..+70°C)</li><li>- Amphenol DC power plug</li><li>- Amphenol DC power jack included</li><li>- M6 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 aluminium, VDE and CE compliant</li><li>- 2 Control lamps for Traffic and Power on front panel</li><li>- 1 Power switch 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: 265/310 mm</li><li>- Weight 19" enclosure: ca. 5.5 kgs, all components delivered: ca. 6.5 kgs</li></ul> <p><b>Environment</b></p> <ul style="list-style-type: none"><li>- Indoor components operating temperature range -10°+60°C (-30°/-40°..+70°C by option)</li><li>- Outdoor components operating temperature range -30°..+70°C</li><li>- Relative humidity: &lt; 90%</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 EMC and EN62368 compliance, RoHS, WEEE</li><li>- Licence 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, or options 24/36/48 months</li></ul>
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All data subject to change without prior notice.

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