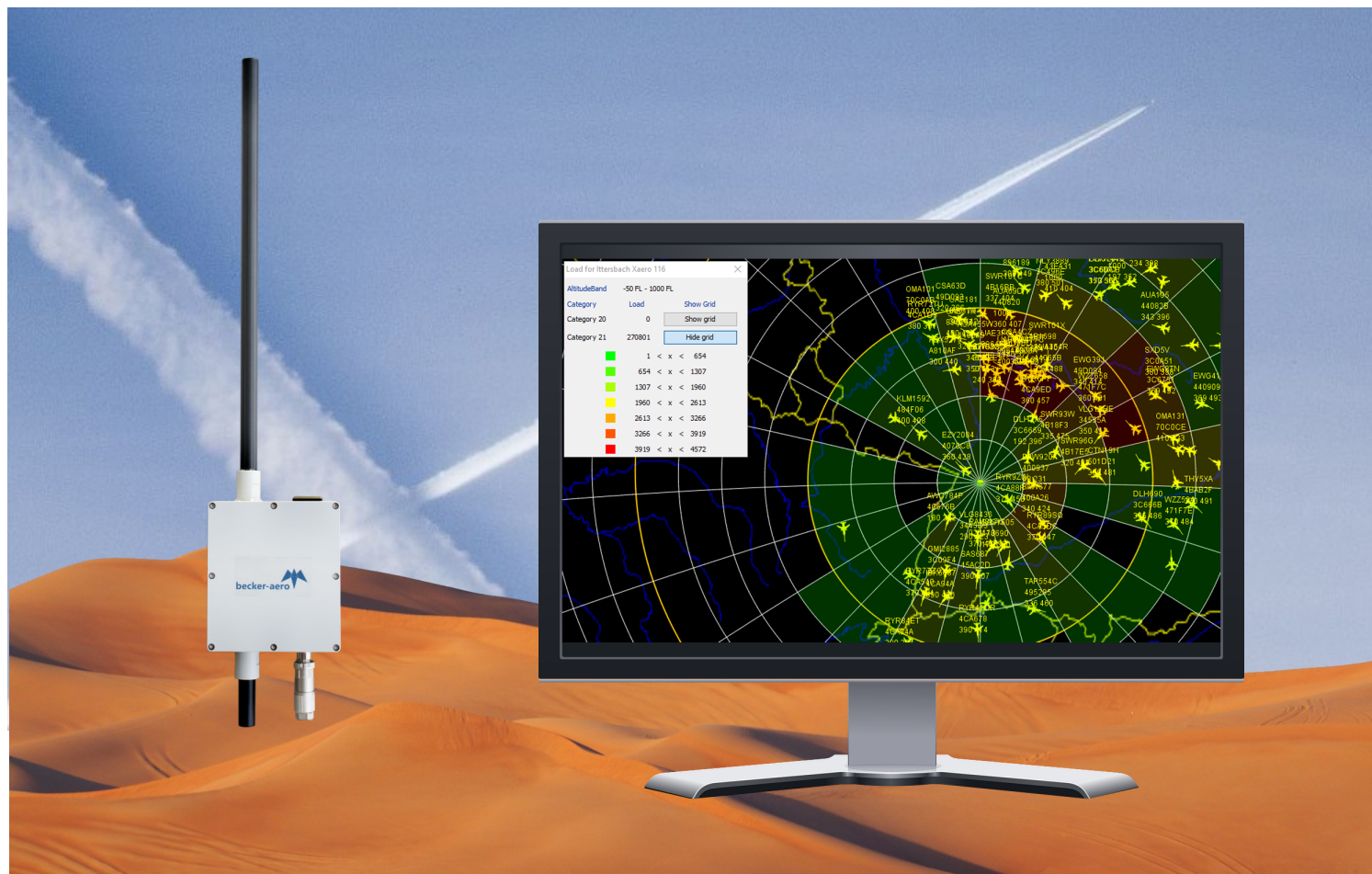


XTD Technical Display



XTD is a display system which supports navigation experts to assess the quality of any ADS-B sensors and to evaluate the ASTERIX messages generated by such sensors.

By depicting the targets on a geographical map, XTD allows to examine the coverage of individual ADS-B sensors in real-time.

XTD provides detailed information about:

- ▶ the targets
- ▶ the ADS-B sensors
- ▶ statistics about the coverage, rate, load and the message amplitude

Message amplitude for Ittersbach Xaero 116

AltitudeBand -50 FL - 100 FL

Category 2

Load for Ittersbach Xaero 116

AltitudeBand -50 FL - 1000 FL

Category

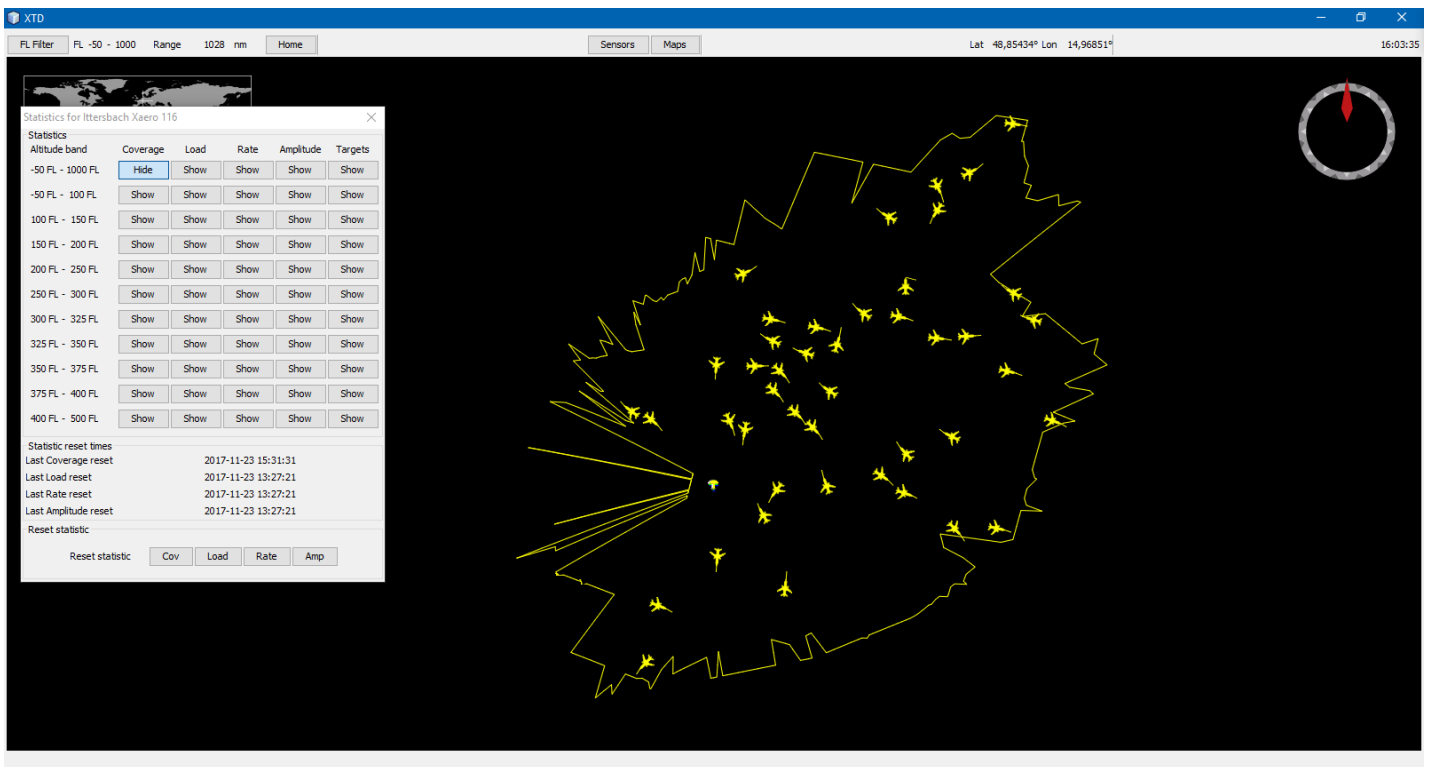
Category 20

Category 21

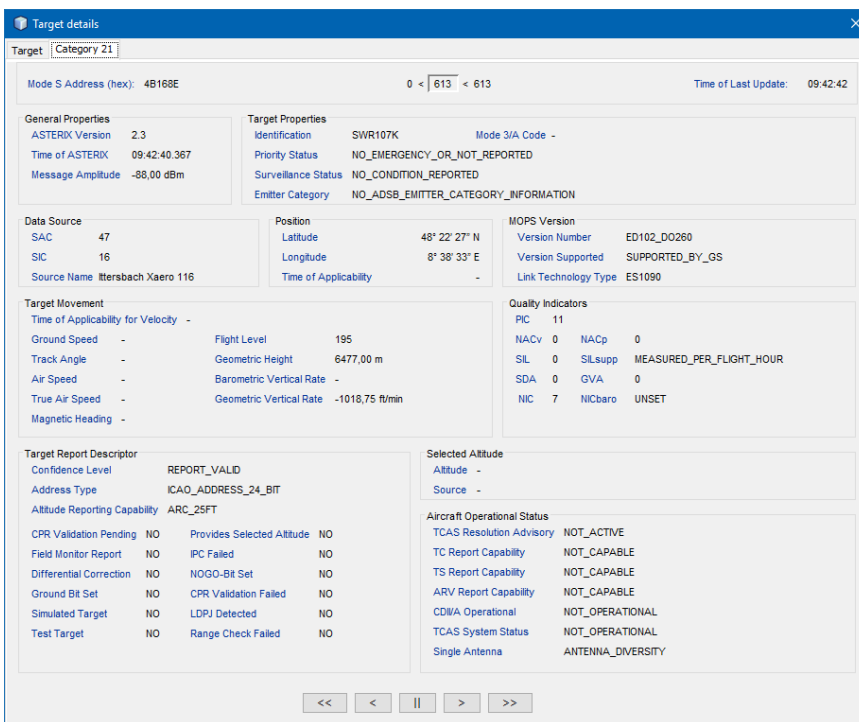
Rate for Ittersbach Xaero 116

AltitudeBand	Rate	Show Grid
Category 20	0,00	Show grid
Category 21	126,88	Show grid

Sensors								
Ittersbach Xaero 111			Ittersbach Xaero 115			Ittersbach Xaero 116		
V	RR	S	V	RR	S	V	RR	S
L			L			L		



The coverage window e.g. illustrates the reception range of the selected sensor. A borderline around the area within which message have been received since the last reset is drawn for the selected altitude band.



The 'Target details' window displays information for a target in 'Category 21'. It includes fields for Mode S Address (hex), Time of Last Update, General Properties (ASTERIX Version, Time of ASTERIX, Message Amplitude), Target Properties (Identification, Priority Status, Surveillance Status, Emitter Category), Data Source (SAC, SIC, Source Name), Position (Latitude, Longitude, Time of Applicability), MOPS Version (Version Number, Version Supported, Link Technology Type), Target Movement (Time of Applicability for Velocity, Ground Speed, Track Angle, Air Speed, True Air Speed, Magnetic Heading), Quality Indicators (PIC, NACv, NACp, SIL, SILsupp, MEASURED_PER_FLIGHT_HOUR, SDA, GVA, NIC, NICbaro, UNSET), Target Report Descriptor (Confidence Level, Address Type, Altitude Reporting Capability, CPR Validation Pending, Field Monitor Report, Differential Correction, Ground BR Set, Simulated Target, Test Target), and Selected Altitude (Altitude, Source). It also lists Aircraft Operational Status (TCAS Resolution Advisory, TC Report Capability, TS Report Capability, ARV Report Capability, CDIIA Operational, TCAS System Status, Single Antenna).

- ▶ The information received for a selected target is presented in the Target details window. All the data displayed here are received from a specified sensor in ASTERIX messages.
- ▶ The Target details window shows e.g. the message details and the total number of received ASTERIX messages of a specific sensor.