

SONAR

ADS-B 1090ES GROUND STATION

SONAR ADS-B 1090 MHz Extended Squitter Ground Station is designed to survey aircrafts and vehicles equipped with ADS-B 1090 ES squawks as well as for digital data processing and transmission of surveillance data to ATC centres.

FUNCTIONALITIES

The station provides:

- receipt and processing of signals from 1090 ES airborne transponders
- data generation and issuing to consumers in ASTERIX cat. 21 format
- data archiving and playback at various processing stages
- observed GNSS GPS and GLONASS satellites integrity monitoring (optional)

ADS-B 1090 ES station network establishment at the regional area provides the coverage possibility for the flights surveillance area with high-frequency of updating and expanded volume of aircraft flight data in ground and oceanic sectors of the responsibility area.

SONAR ground-based station is the functional element for ADS-B networks. It complies with the requirements of European Commission under ED-129A and can be used as a data source for ADS-B 1090 ES to form wide area ADS systems (WAM) and multilateration systems for surveillance in aerodrome areas (MLAT).

