PULSAR

AIRBORNE TRANSPONDER

PULSAR ADS-B Airborne Transponder is designed to arrange automatic dependent surveillance-broadcast (ADS-B) over aircrafts and other mobile objects based on VDL mode 4 in accordance with ICAO standard (DOC 9816 AN/448).

FUNCTIONALITIES

The station provides:

- data receipt and transmission in accordance with ICAO DOC 9816 AN/448
- transmission of own position data and acquisition of data on position of other objects fitted out with ADS-B mode 4 equipment
- capability to receive weather data and other flight information (FIS-B function)
- capability to receive surveillance data on objects unequipped with ADS-B tools (TIS-B function)
- capability to receive data from GBAS
- capability to arrange pilot-controller communication via data link (CPDLC function)

Support of interfacing with ARINC-429 airborne equipment including:

- data display facilities (cockpit display) over ARINC-735 protocol
- with barometric altimeter
- navigation system with regard to time synchronization, position data receipt and other navigation parameters as well as related to transmission of differential corrections over ARINC-743 protocol

PRODUCT VERSIONS

- PULSAR Airborne Transponder
- PULSAR-M Mobile Radio Station
- PULSAR-RM Portable Radio Station

The use of ADS-B network VDL Mode 4 equipment provides for situational awareness in the environment.