ZETA-AVIO-TS

Avionics test system

ZETA-AVIO-TS tests the radio systems of an aircraft against the signal formats each one uses in operation. It covers communication radios (AM, FM and HF SSB, with SELCAL), navigation receivers (VOR and ILS localiser, glideslope and marker beacon), surveillance systems (DME, TACAN, ATCRBS and Mode S transponders, ADS-B and UAT, TCAS and TAS) and emergency locator transmitters on 121.5, 243 and 406 MHz.

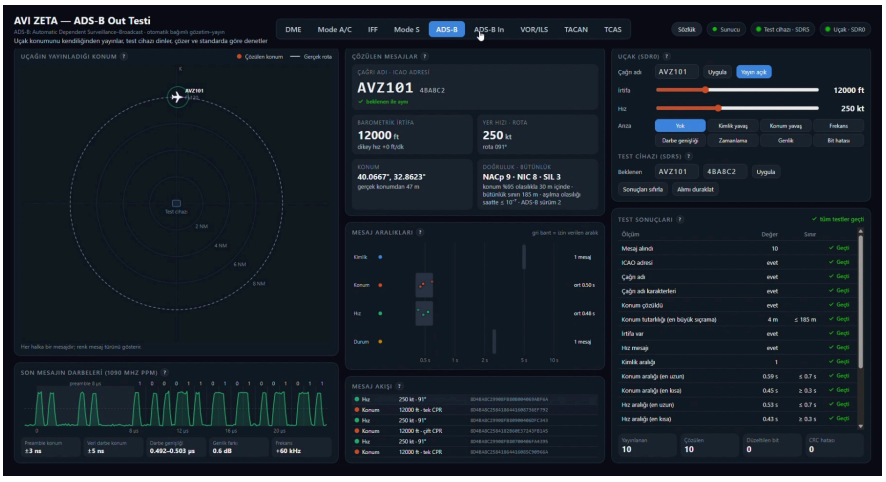


Figure 1. ADS-B Out test: broadcast position, decoded messages and checks against the standard

APPLICATIONS

- Testing of communication radios: AM and FM from 10 to 512 MHz, HF SSB and SELCAL
- Testing of VOR and ILS localiser, glideslope and 75 MHz marker beacon receivers
- Testing of DME and TACAN, ATCRBS and Mode A, C and S transponders on 1030/1090 MHz
- Testing of ADS-B Out and In on 1090 MHz, UAT on 978 MHz, and TCAS I/II and TAS
- Testing of emergency locator transmitters on 121.5, 243 and 406 MHz

Capabilities

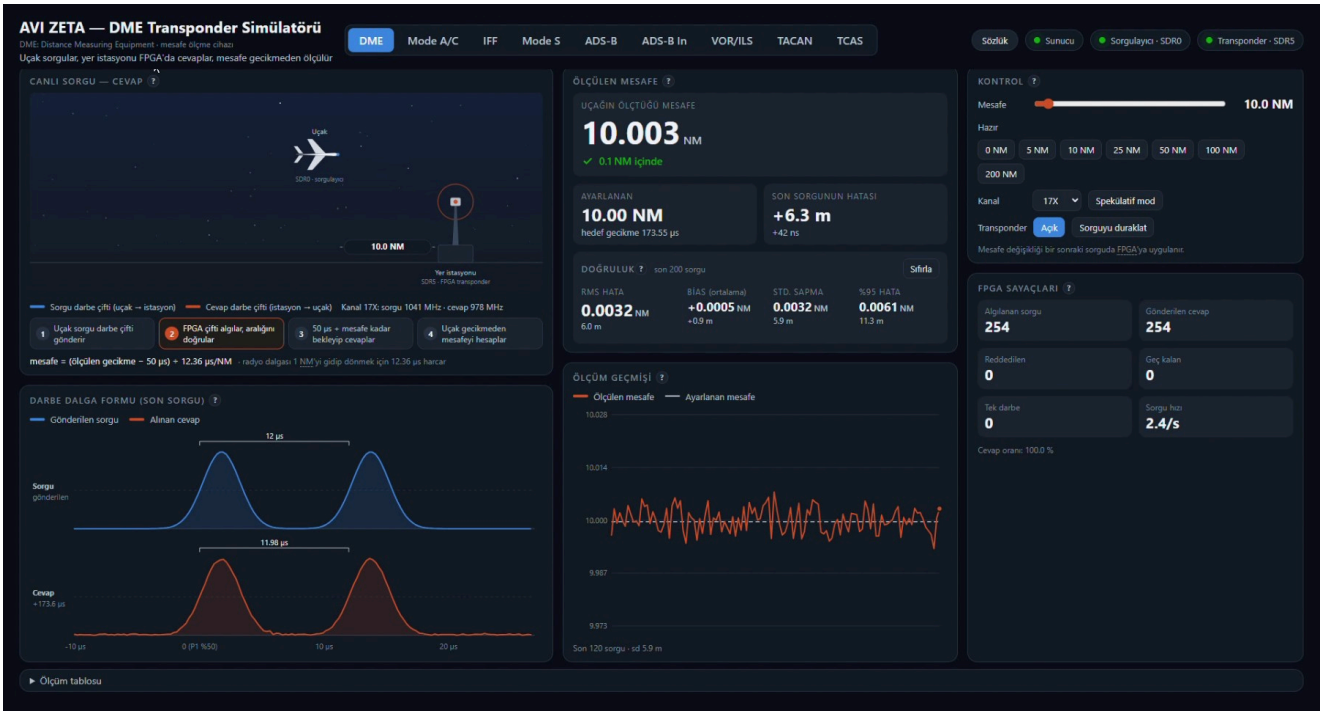


Figure 2. DME test: live interrogation and reply, measured distance, accuracy statistics and pulse waveform

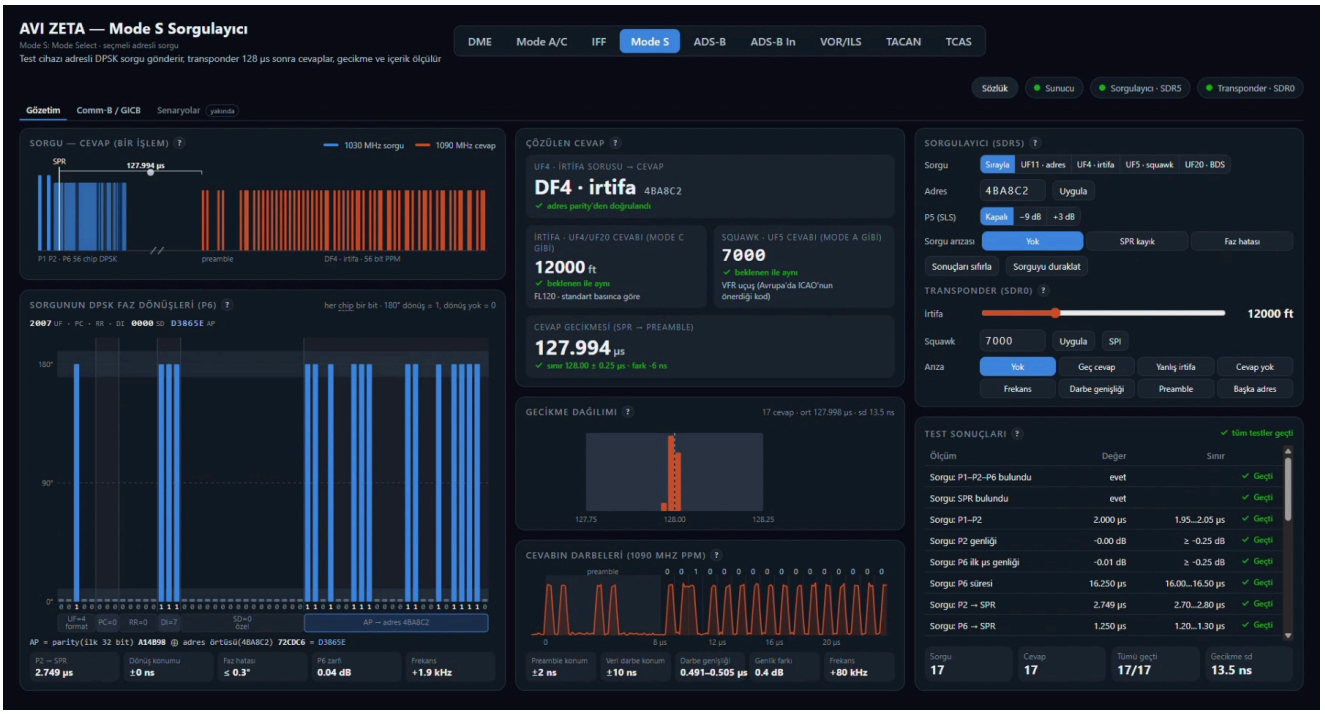


Figure 3. Mode S interrogator: DPSK interrogation, decoded PPM reply, reply delay and test results

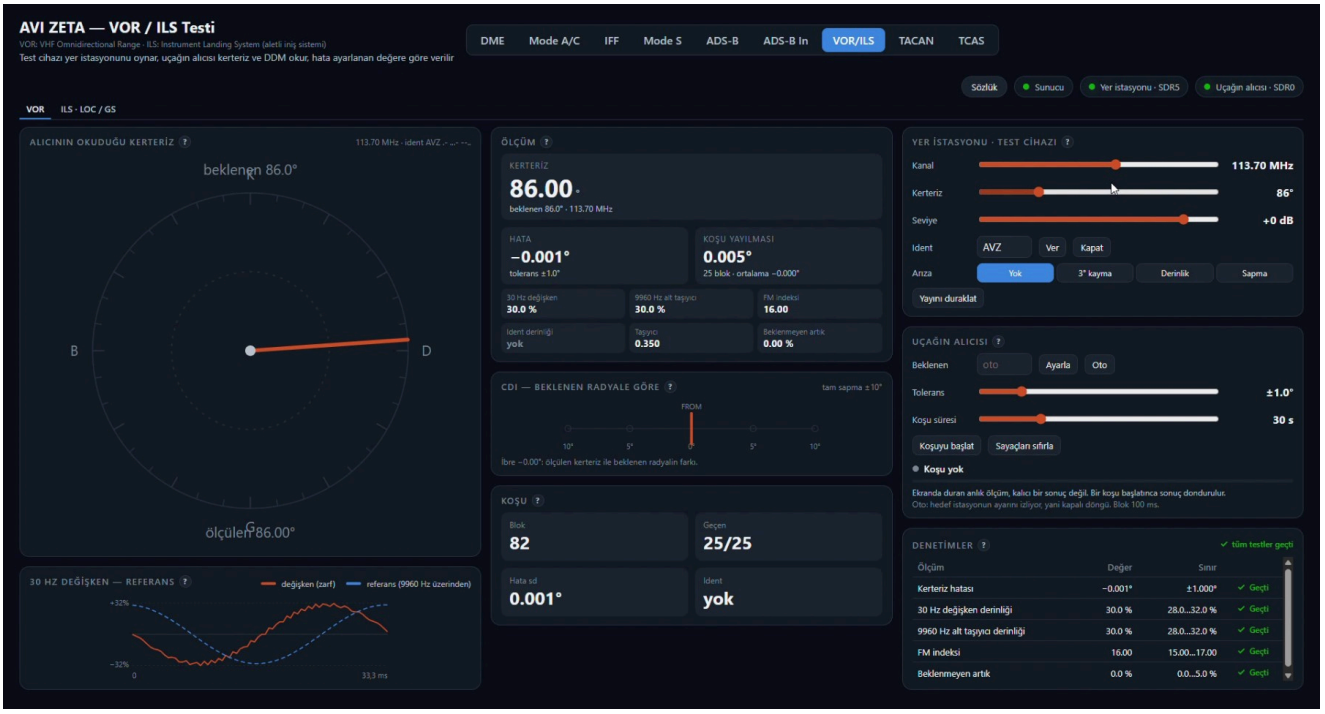


Figure 4. VOR test: bearing read by the receiver, measurement error and ground station settings

Warranty

All hardware and software procured from Zeta is under warranty against manufacturing or design failures for 2 years. Customer-specific warranty terms may be arranged.

Disclaimer

Due to ongoing research and development, Zeta reserves the right to change product specifications without notice.

About Zeta

Zeta Defence develops electronic intelligence (ELINT) and communication intelligence (COMINT) equipment and radar / electronic warfare simulators. Its capabilities include RF transceiver system design, digital design and large-scale software development.

Contact

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