

Customer Reference

AIRBUS, Germany, France, United Kingdom • Boeing, USA • CAE, Canada • Diehl Aerospace, Germany • EADS, Germany • ELDEC, USA • Eurocopter, Germany, France • GEC, United Kingdom • General Dynamics, Redmond, USA • Hamilton-Sundstrand, USA • Honeywell, USA • Intertechnique, France • KAI, Korea • Liebherr Aerospace, Germany, France • LITEF, Germany • Lufthansa, Germany • MTU Aero Engines, Germany • Nord-Micro, Germany • Parker Hannifin, USA • Pratt & Whitney, USA • Rheinmetall Defence Electronics, Germany • Rockwell Collins, USA • Rohde & Schwarz, Germany • Rolls Royce, United Kingdom • Smiths Aerospace United Kingdom, USA • Thales, France • ZODIAC, France

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TechSAT

Company Profile



Test & Integration Systems



Products



Software Solutions



Service & Support



TechSAT History

Headquartered in Poing, some 20 km to the east of Munich, TechSAT was founded in 1987 and now ranks among the market leaders in the development and production of real-time systems for the simulation, integration, validation, testing, analysis and maintenance of electronic systems in the aerospace sector. The workforce of around 80 people primarily consists of qualified systems engineers, computer scientists and electrical engineers. The company also has sales and maintenance offices in Hamburg, Frankfurt und Seattle (USA). TechSAT provides a wide range of off-the-shelf hardware and software solutions for modular configuration in accordance with customer requirements.

Major product lines include avionics bus testers and simulators, data loader systems, protocol simulations for various aircraft types, intelligent I/O interface cards for special avionics bus standards (ARINC 664/AFDX®; ARINC 429, MIL-STD-1553) and customer-specific high-performance modules for analog signals (ADCs, DACs, sine-wave generators), to mention just a few.

Next to product business, systems engineering constitutes the most important corporate pillar. The flagship product and driver of technology in this regard is our tried-and-tested, second-generation Avionics Development System Integration Bench (ADS2-SIB) – a modular and extremely flexible integrated software and hardware platform for the development and integration of electronic control systems. It was TechSAT that supplied the bulk of the test units for integration of the wide-bodied Airbus A380 to Airbus Deutschland. A range of units was also delivered to Airbus component suppliers such as Diehl Avionik, Nord-Micro and Parker Hannifin (USA). Other ADS2-based test stations were purchased by MTU for its Eurofighter engine controller development. EADS Ulm also opted for TechSAT's established ADS2 SIB technology to assist in development and integration of the EU military transport aircraft, the A400M. In 2009 TechSAT has been assigned by Airbus Germany to provide the complete test facilities for the A350 cabin integration and verification.

TechSAT has also succeeded in breaking into the significant Asian market, thanks to cooperative ventures with partners in China and South Korea.

Milestones

1989

- Intelligent A429 ISA Interface card

1989

- CFDS Simulation (Centralized Fault Display System) for A320 & ARINC 429 Bus Analyser (UIS)

1991 – 1993

- Bus Analyzer & Recording Tool (BART) for the B777 (ARINC 429/629)

1992-1994

- General Purpose ATE for ECB, BSCU, SFCC for A330/340

1995 – 1997

- Highspeed Data Recorder for the International Space Station (MIL-1553)

1996 – 2000

- Avionics Development System (ADS)-3000 Integration and Validation Test Systems CIDS, ECS for A340 / A318 / A319 / A321

2001

- A380 ECS Technology Project
- First commercially available AFDX interface card

2002 – 2005

- ADS2-SIB Integration Benches for the A380

2002 - 2008

- System Rigs and STTEs for DECU/DECMU (FADEC Controller)

2005 - 2009

- Integration/Validation Benches incl. Test Process Management Tool (TPM) for MMS/DASS (A400M/MTF)

2006-2008

- 787 Reference Tools and Data Loader for the Boeing 787
- Unit and System Test Rigs for ECMU (Tiger/MTR390)

2009

- Test facilities for the A350 cabin0 integration and verification
- Test facilities for the A350 FQMS (Fuel Quantity Data Concentrator), RDC (Remote Data Concentrator), SFCC(Slat Flap Control Computer), VC (Ventilation Control), and others

