TQ in aerospace:

enabling your electronics to fly!

TQ Systems are certified to aerospace standard EN9100:2003+AS 9100 B

Due to this certification Hitex - working in partnership with TQ - are ideally placed to be able to assist with all manner of aerospace projects and development work. We can offer:

- ✓ End-to-end traceability in development and production
- ✓ Obsolescence management and PCN-/ EOL service
- ✓ Transparent configuration management with long-term archiving
- ✓ First Article Inspection Report (FAI)
- ✓ Final Acceptance Test (FAT)
- ✓ Global procurement network of aviation-certified suppliers

As an aviation customer your requirements are handled by a team which specialises in your unique industry requirements. They cover all areas ranging from sales and marketing through to technical purchasing and right up to production. They provide you with access to years of expertise and experience for developing both your hardware and software. This expertise has already been incorporated into a wide variety of different development and production projects. Some examples of how TQ products have been used in the aerospace industry include:

The TQ Aviation team are able to provide the following services:

- ✓ More than ten years experience in serving aviation customers
- ✓ Managing compliance with aviation-specific processes
- ✓ Flexible and customised logistical processes such as consignment warehouses, EDI, etc.
- ✓ On-site support plus a single point-of-contact
- ✓ Project team structure

Development Standards:

General Aviation:

- DO-178B (Software DAL C-E)
- DO-254 (Hardware, Systems)
- DO-160
- ARINC (e.g. 625, 628, 485)
- FAR e.g., Part 25 (Airworthiness

Airbus Specific:

- ABD 0100 (Equipment Design Requirements)
- ABD 0031 (Fireworthiness Requirements)
- AP 1500 (GREDS)
- AP 1013 (GRESS)

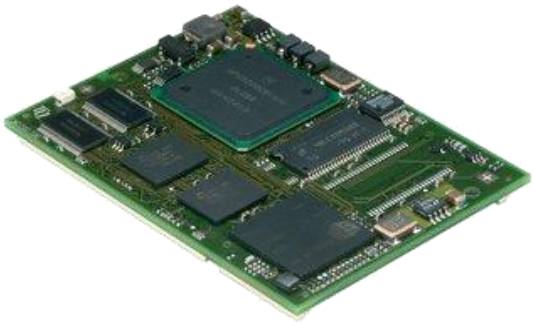
Boeing Specific:

- D6-36440 (Cabin System Requirements)
- D6-44588 (Electronic Requirements Transport Airplanes)
- D6-16050-4 (Electromagnetic Interference Requirements)

TQ in aerospace:
recommended products

Most recommended embedded modules for aviation

TQM5200 - Power Architecture module with MPC5200 from Freescale



- ✓ High graphics performance through integrated graphics
- ✓ Substantial computing power, numerous interfaces
- ✓ Multifunctional external busses (PCI / ATA / IDE)
- ✓ Compact outer dimensions (80mm x 60mm)
- ✓ Low power dissipation, passive cooling
- ✓ Robust 0.8mm mezzanine connection system, long-term availability

TQM885D - Power QUICC I module with MPC885 from Freescale

- ✓ Scalable performance and memory
- ✓ Extremely resistant against shock and vibration
- ✓ Compatible within the product family
- ✓ Includes Linux package
- ✓ Highly reliable
- ✓ Long-term availability

TQMP1020 - Power Architecture module with Freescale QorIQ™

- ✓ Easiest migration of PowerQUICC III on QorIQ™ by approved e500v2 core
- ✓ Single and Multicore of 400 up to 2x800 MHz in 45nm SOI for best performance/watt ratio
- ✓ High-speed communication via 3x Gb Ethernet, 2x PCIe and 1x USB 2.0 interface
- ✓ Simple function extension via PCIe, SPI, I2C and flexible local bus

TQMP2020 - Power Architecture module with Freescale QorIQ™

- ✓ Easiest migration of PowerQUICC III on QorIQ™ by approved e500v2 core
- ✓ Single and Multicore of 400 up to 2x1200 MHz in 45nm SOI for best performance/watt ratio
- ✓ High-speed communication via 3x Gb Ethernet, 3x PCIe and 1x USB 2.0 interface
- ✓ Simple function extension via PCIe, SPI, I2C and flexible local bus

To find out more contact Hitex (UK) Ltd: www.hitex.co.uk 024 7669 2066