

Mission computer capabilities

Ergonomically designed for superior functionality



BAE Systems offers expertise in developing modular, open architecture computer systems that offer the scalability and flexibility for applications on existing, new, and emerging fixed-wing aircraft, ground vehicles, and helicopters. Field-proven to meet military environmental and electromagnetic inference standards, our products provide mission computing capabilities for the missions of today and tomorrow.

Mission crew workstations

- Built with ultra-strong lightweight composite material, the workstations improve aircraft and platform performance.
- Tested and stressed in rigorous conditions, the workstations provide reliability for all mission-critical environments.
- Grow and expand with the aircraft/platform, as upgradability and expandability features enable the workstation to meet future aircraft requirements.



Enterprise-class servers

- To better meet customer needs, our ATCA open system architecture enables customers to use different COTS hardware.
- Tested in rigorous environments, our enterprise servers surpassed temperature, acceleration, pressure, vibration, and shock testing, making them the most reliable servers on the market.
- Expandable and upgradeable features enabled through the enterprise servers allow customers to add more capabilities as requirements evolve.



Software infrastructure

- Resilient software solutions for diagnostics and system maintenance. The health management applications support built-in test, on demand testing and monitoring, enhancing platform performance.
- Qualification and testing of system through unified hardware, application programming interface, and operating system (OS) packages, improves aircraft/platform operations.
- Our team designs and builds OS kernels to include customization of file systems to better meet customer requirements.

Multi-mission processor (MMP)

- With built in cyber resiliency, the processor continuously delivers the intended mission outcome despite adverse cyber events.
- Multi-core processing allows for execution of program instructions faster and more efficiently by immediately expanding processing capability and increasing memory.
- Advance processing capabilities enable mission crews to access target recognition, motion detection, threat cueing, and mission planning.



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