Aviation and Aerospace Capability Statement

Proven Aerospace Solutions Partner

With over 35 years of industry experience, VarTech Systems delivers mission-critical computing solutions designed specifically for the demanding needs of aviation and aerospace applications.

Military-Grade Durability

Our computers and monitors meet rigorous military standards including MIL-STD 461, MIL-STD 810, and MIL-STD 1275, ensuring seamless operation in high-vibration environments, extreme temperatures from –40°C to 70°C, and protection against EMI.

Advanced Display Technology

High-bright displays up to 1800 nits with automatic dimming ensure clear visibility in all lighting conditions, from direct sunlight to night operations. Our optical bonding process enhances durability and reduces glare.

Custom-Engineered Integration

Every unit is built to your exact specifications with flexible mounting options, weatherproof sealing up to IP68/NEMA 6 standards, and compatibility with existing systems to minimize implementation challenges.

Made in the USA

All VarTech products are engineered, fabricated, and manufactured at our Clemmons, North Carolina headquarters.

Key Products:

Bolt (Ai): Fully sealed, resistant to extreme temperatures, powerful edge AI computing.

All-Weather: IP67/IP68 weatherproof computers and monitors for outdoor use.

ToughStation: NEMA 4X/IP66 computers and monitors with large displays up to 43″.

PowerCube: Powerful small form factor PC with scalable mechanical footprint.

ToughCube: Fully sealed small form factor PC with up to 64 GB RAM for nonstop use.

DiamondVue: Panel mount industrial computers and monitors.

Use Cases:

Airport SCADA systems
With up to 128 GB RAM, our powerful computers are used to control complex SCADA systems such as for passenger baggage management.

Air Traffic Control
Our computers and monitors' 24/7 reliability support essential operations of air traffic control towers.

Aerospace Launch Pads
Resistant to extreme heat, shock, and vibration, VarTech's products provide computing and display support, even in the presence of rocket launches.

Outdoor Tarmac Support
VarTech's computers and monitors feature sunlight-readable LCDs with automatic dimmers, waterproof touchscreens, and are ready for temperatures ranging from –40°C to 70°C.

Flight-Based Systems
With high-bright displays and proven reliability, our computers and displays are ready for cockpit applications.

Trusted by:

AIRBUS　　RTX　　LOCKHEED MARTIN

DELTA　　NASA　　American Airlines

The VarTech Standard:

- Best-in-class engineered solutions: Tailored to any application
- Built-to-spec customization: Countless features and packages
- End-to-end project support with a dedicated Project Manager
- Industrial-strength protection
- Made in the USA: Engineered, fabricated, and assembled in NC
- Order size flexibility: No minimum quantity
- Robust product portfolio
- Short lead times: Vertical integration allows 4-6 week lead times
- Unrivaled durability: Only the highest quality components

Product Differentiators:

- Built to meet IP66, IP67, IP68, NEMA 4X, and NEMA 6 standards
- Edge AI software compatible
- Extreme temperature resistance: –40°C to 70°C
- High-bright displays with automatic dimmers for varying light conditions
- Rugged touchscreens: PCAP, resistive, resistive ArmorTouch
- Shock and vibration-resistant mounts and components
- Small form factor PCs for tight spaces
- Up to 128 GB RAM to support complex operations
- Wide range of display sizes: 6.5″ to 43″

Company Reference Codes:

NAICS Codes: 334111, 334519, 357501
UEI: Q7V9FM353J4
Fed ID: 84-1104385

DUNS: 840912190
CAGE: 0ZE75
ISO 9001 Certification: 526198

VARTECH SYSTEMS

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