



Transportation Industry Capability Statement

Rugged Computing for Transportation Industry Efficiency

VarTech Systems delivers purpose-built computing solutions engineered for the transportation industry's demanding environments. Our fully sealed, weatherproof systems withstand extreme temperatures, vibration, and water exposure while providing reliable 24/7 operation.

Mobile-Ready Technology

Our computers and displays feature shock-absorbing mounts, EN50155 support, and flexible DC power options (24-110V). Whether installed in vehicles, rail cars, or outdoor terminals, our systems maintain peak performance through constant motion and environmental challenges.

Interactive Display Solutions

From compact 6.5" interfaces to expansive 43" information displays, our sunlight-readable touchscreens (up to 1800 nits) with dimmers provide clear visibility in any lighting condition. Resistive and PCAP options ensure reliable operation even when operators wear gloves or use styluses.

Data Capture & Connectivity

Enhance operational efficiency with integrated peripherals including RFID readers, barcode scanners, and thermal printers. Our systems support 4G-LTE, WiFi, and wired networking to maintain connections in remote locations and transit corridors.

Use Cases:



Logistics and Shipping Operations

With up to 128 GB RAM, our computers and HMI workstations operate complex SCADA systems with 24/7 reliability.



Commercial Transportation Hubs

Transportation hubs rely on our weatherproof DiamondVue and ToughStation monitors to display pertinent information to travelers. Interactive touchscreens, including those with water-sensitive controllers, are available.



Rail Applications

VarTech supports the railroad industry with shock and vibration-dampening mounts and components, DC power options, and EN50155 support to enable reliable computing in challenging mobile environments including inside railcars.



Weigh Scale Operations

Our WeighStation is designed specifically as an unattended weigh scale kiosk for vehicles, especially semi trucks with heavy loads. Equipped with numerous peripherals for data capture and logging, it connects to your software to support efficient operations.

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

Key Products:



DiamondVue: Panel mount computers and monitors with wide range of display sizes.



Bolt (Ai): Fully sealed, weatherproof edge AI computer designed for outdoor operations.



ToughStation: NEMA 4X and IP66 fully sealed industrial computers and monitors.



WeighStation: Weigh scale HMI kiosk for efficient trucking operations.



ToughStation Workstation: Operator interface for demanding applications.



All-Weather: NEMA 6 and IP67/IP68 computers and monitors for outdoor use.

Trusted by:



PORT OF
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BUILDING AMERICA



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AIRPORTS AUTHORITY



Product Differentiators:

- Shock and vibration-dampening mounts and components
- 24, 48, 72, 96, and 110 VDC nominal inputs available
- Built to meet EN50155 standards
- Edge AI software compatibility
- Extreme temperature resistance: -40°C to 70°C, depending on product line
- Heavy-duty computing power: Up to 128 GB RAM to support complex operations
- High-bright displays: Up to 1800 nits
- Industrial small form factor PCs for tight spaces
- Numerous peripheral options to enhance functionality
- Wide range of display sizes: 6.5" to 43"

Company Reference Codes:

NAICS Codes: 334111, 334519, 357501

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