



FieldStation Computers

Display Size: 15.0"

The FieldStation is a rugged, portable military-grade computer meticulously engineered to perform in the most demanding environments.

Proudly made in the United States, this all-in-one 15" computer is designed for mission-critical field applications, adhering to IP67 ingress protection standards to resist dust and water. It is equipped with removable hard drives and Trusted Platform Modules.

Built to meet stringent military specifications according to each customer's needs, including options for MIL-STD 461, MIL-STD 810, and MIL-STD 3009 support, FieldStation computers offer unparalleled durability in challenging defense operations.

This specification summary represents VarTech Systems' baseline product configurations. All products are built to the exact requirements of our customer's applications and are customizable from the model shown.



Display Image: 15" FieldStation in a black powder-coated finish.

Finishes: Available in custom-colored powder-coated aluminum (NEMA 6).

Standard Features*

- **Milled 6061-T6 aluminum enclosure**
- **Custom-colored powder-coated finish**
- **High luminance LED backlight**
- **Proprietary optical film stack**
- **Optical bonding (VBOND):** adhering a cover glass or touchscreen to the front surface of the LCD using an optical-grade silicone to increase solar reflectivity and ruggedness.
- **Anti-reflective coating on cover glass**
- **Brightness level:** 1800 nits
- **Advanced wide range dimming ratio:** From 100% to true black
- **Vibration resistant low-profile video controller board or motherboard**
- **Low profile cable assemblies/connections**
- **Potted components (where applicable)**
- **Operating Systems:** Windows 11 Pro, Windows 11 Enterprise LTSC, Windows 11 IoT Enterprise LTSC
- **Vibration dampening standoffs**
- **MIL-DTL 38999 I/O connectors**
- **Up to 18x function buttons embedded around display perimeter**
- **Integrated touchpad**
- **Rear kickstand with front-hinged hood and top handle**
- **Available touchscreens:** PCAP (projected capacitive) and ArmorTouch
- **Power input:** 9-36 VDC internal power supply
- **Operating temperature:** -20° to 70° C
- **Relative humidity:** ≤ 0% to ≤ 100%
- **Altitude:** up to 10,000 ft MSL
- **Embedded computer**
- **Solid-state components**
- **Warranty:** 3 years
- **Supported Operating Systems:** Windows 11 Pro, Windows 11 Enterprise LTSC, Windows 11 IoT Enterprise LTSC

*Available features are determined by your chosen configuration.

Optional Features**

- **Private labeling:** company logo or corporate identity for OEM/VAR applications
- **Coatings:** custom powder coats, conformal coatings, and chemical-resistant finishes (CARC paint)
- **Avionic Bond:** up to 40,000 ft MSL (high altitude)
- **Video output**
- **Dimmer:** Push-button dimmer, or auto-dimming
- **Wireless Connectivity:** Bluetooth, Wi-Fi, integrated router/Wi-Fi repeater, 4G-LTE connectivity
- **Expansions:** PCIe, mPCIe, M.2, SIM card slot
- **Storage:** HDD, SSD, removable drives, various capacities, multiple drives
- **Supported Operating Systems:**
 - **Windows 10:** Windows 10 Pro (64-bit), Windows 10 Pro (32-bit), Windows 10 Enterprise, Windows 10 Enterprise LTSC
 - **Windows 7:** Windows 7 (64-bit, limited availability)
 - **Linux:** Linux (select versions supported)
- **I/O Connectors:** 1 x VGA, 1 x HDMI, 1 x DisplayPort, RS-232/422/485, Fiber Optic LAN
- **Operating temperature (Extreme Temperature Package):** -40° to 70° C
- **Dual removable storage drives and/or removable computer**
- **Additional and/or alternate I/O ports available:**

**Available features are determined by your chosen configuration.

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Specifications

Display Size	Brightness (nits)	Aspect Ratio	Resolution	Touchscreens*	Viewing Angle	Maximum I/O Ports	Enclosure Dimensions	Approx. Weight
15.0"	1500 	4:3	XGA 1024 x 768	AT/PCAP	80°/80°/60°/80°	8	18.25" x 12.5" x 2.59"	~16.8 lbs.

*Touchscreen types: AT = Resistive ArmorTouch, PCAP = Projected capacitive

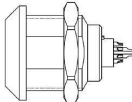
Motherboard Options

Option	TPM	Available I/O Ports	Memory (RAM)	Operating System	Processor	Storage Drive
1	N/A	2 x USB 2.0, 2 x LAN	Up to 8 GB	Win 10: 64-bit	Intel® Atom® E3845	1 x SATA-300 1 x CFAST
2	N/A	4 x USB 3.1, 3 x LAN	Up to 32 GB	Win 10: 64-bit	Intel® i5-8365UE	1 x SATA 6 G/s with 5 V SATA power connector
3	2.0	4 x USB 2.0, 1 x USB 3.0, 1 x LAN	16 GB	Win 10: 64-bit	Intel® i7-8650U	512 GB SSD
4	1.2	4 x USB 2.0, 1 x USB 3.0, 1 x LAN	8 GB	Win 10: 64-bit	Intel® Atom® E3845	128 GB SSD

Product Packages

Package	Details
Extreme Temperature Package	- Max Range: -40°C to 70°C - Integrated heater and thermostat - Uninterrupted wide-temperature dual PSU system - Wide-temperature LCD panel - Harsh-duty video controller board or motherboard/SSD/RAM - Optional heat-reflective white powder-coated finish
EMI/EMC 461 AS Package	- All-surface ingress protection coupled with an All Surface Faraday cage design. - Integrated 8 Ohm ITO/100 OPI stainless-steel mesh protective window or touchscreen equipped with conductive U busbar (8 Ohm ITO for surface ships limits/100 OPI SS mesh for army ground limits) - Chromated metal and EMI copper conductive tape to assure conductivity of conductive window/busbar and enclosure - Enhanced EMI-conductive gaskets for MIL-STD 461 protection while maintaining seal up to IP67 - MIL-DTL 38999 I/O connectors with backshell assembly - Cable braiding, ferrites, and in-line bandpass filters where applicable - CE101, CE102, CS101, CS106, CS114, CS115, CS116, RE101, RE102, RS101, RS103 (Designed-to-meet based on similar VarTech Systems designs)
NVIS Dual Mode Compatibility Package	- NVIS MIL-STD 3009 Class B (night mode) 4 nits brightness (night mode) - Toggle between day/night mode via the one-touch tactile button - Optional: Backlight kill switch - ITAR restrictions apply
Impact-Resistant Package	6 mm impact-resistant protective overlay glass 8H abrasion-resistant surface - Chemical stain resistant - Vandal-proof PCAP touchscreen

I/O Connectors

Type	Image	Details
MIL-DTL 38999	 	Military-grade circular connector with high environmental resistance and EMI shielding.
IP67 Push/Pull Lock	 	Dust-tight and waterproof connector with quick-connect/disconnect mechanism.





The VarTech Standard



Best-in-Class Engineered Solutions

Our in-house team of highly-experienced engineers stand ready to design computing solutions tailored to the specific needs of your application.



Built-to-Spec Customization

VarTech offers industry-leading customization capabilities with countless options, features, and packages to ensure all the needs of your project are met.



Order Size Flexibility

We combine big business capability with small business agility to deliver both highly specialized low-volume orders and mass quantities for larger projects.



Short Lead Times

Our vertically-integrated manufacturing operation in Clemmons, North Carolina, USA affords our customers short lead times on custom projects.



End-to-End Project Support

A dedicated project manager will guide your project from the design phase through post-sale support and is always accessible to you throughout the process.



Unrivalled Product Durability

We set the standard for durability in extreme operating conditions with only the highest quality components used in our manufacturing processes.



Robust Product Portfolio

Our products range from small form factor computers to purge-protected workstations ensuring a perfect solution for your operating environment.



Industrial-Strength Protection

VarTech offers powerful NEMA and IP-protected solutions as well as hazardous area-certified products to protect your operations and minimize downtime.



Made in the U.S.A

We proudly design, engineer, manufacture, and assemble all of our products in our Clemmons, North Carolina Manufacturing and Research Facility.

Over 35 years of rugged and industrial computer, monitor, and workstation manufacturing experience!

