

SuperCube3

SuperCube3 is an IP67 protected SFF computer with a fanless design for rugged outdoor applications in military and industrial environments.

SuperCube3 is VarTech's next-generation small form factor computer solution developed for 24/7 operations in some of the most demanding environments. This industrial computer is built to withstand mechanical conditions such as shocks and vibrations or exposure to electromagnetic interference. The fully sealed design can resist exposure to environmental conditions like extreme heat or cold, water, moisture, dust, dirt, and even acidic or alkaline materials.

Available builds include dual removable SSD drives or a highly secure TPM (Trusted Platform Module) removable computer.

Designed in-house with reliability in mind, the ingress protected SuperCube3 is built with industrial-grade components to ensure continuous functionality in rough terrain and mobile applications.



Standard features:

- Processor: Intel i7-8665UE or i5-8365EU, integrated SoC
- Trusted Platform Module (TPM 2.0)
- Dual removable SSDs with capacities up to 1 TB
- Operating System: Windows 10 Professional 64-bit
- Power Input: 9-36 VDC
- Power Consumption: 50 W

- I/O connections: up to 6 (including power)
- Dimensions: 9.5" x 7.86" x 3.28"
- Approximate weight: 4 Lbs
- Temperature: Operational: -20° C to 60° C, Storage: -30° C to 70° C
- Integrated shock mounting provisions
- 2-year warranty

Available Options:

- Removable TPM computer
- Separate 2 x NIC available
- Extreme Temperature Package: -40° C to 80° C (using E3845 processor)
- Operating system: Windows 10 Enterprise, Linux (select versions of Linux supported)
- Additional expansion and I/O ports may be available (dependent on motherboard).
- CANbus

- Wifi, Bluetooth
- 3-year warranty

Optional upgrades available, designed to meet:

- Mil Std 461F
- Mil Std 810G
- Mil Std 1275D

Standard motherboard specifications:

Option	Processor	Memory	Storage Drive(s)	TPM	Available I/O Ports
A*	i7-8665UE	Up to 32 GB	2 x SATA III	2.0	2 x LAN, 4 x USB 3.2g2, 1 x HDMI, 1 x DP, 2 x RS-232, 2 x USB 2.0, Audio, 1 x RS-422/485, DIO
B	i5-8365UE	Up to 32 GB	2 x SATA III	2.0	2 x LAN, 4 x USB 3.2g2, 1 x HDMI, 1 x DP, 2 x RS-232, 2 x USB 2.0, Audio, 1 x RS-422/485, DIO
C	i7-8665UE	Up to 32 GB	1 x SATA III	None	3 x LAN, 4 x USB 3.1g2, 2 x HDMI, 1 x RS-232, 2 x USB 2.0, Audio, 1 x RS-422/485, DIO
D	i5-8365UE	Up to 32 GB	1 x SATA III	None	3 x LAN, 4 x USB 3.1g2, 2 x HDMI, 1 x RS-232, 2 x USB 2.0, Audio, 1 x RS-422/485, DIO
E	i5-7300U	Up to 16 GB	1 x SATA III	None	2 x LAN, 4 x USB 3.0, 1 x VGA, 1 x HDMI, 2 x USB 2.0, Audio, 2 x RS-422/485, DIO

* Standard motherboard option.

Removable computer specifications:

Option	Processor	Memory	Storage Drive*	TPM	Available I/O Ports
R1	i7-8650U	16 GB	512 GB or 1 TB	2.0	1 x USB 3.0, 4 x USB 2.0, 1 x LAN, 1 x DP++
R2	E3845	8 GB	128 GB	2.0	1 x USB 3.0, 4 x USB 2.0, 1 x LAN, 1 x DP++

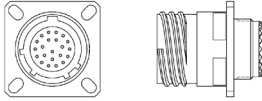
No removable storage drive options available with removable computer. Internal drive options available.



Dual drives removable tool free in under 30 seconds.

Standard I/O connectors: rear exit connectors

MIL-DTL 38999: military standard, sealed, vibration and shock-resistant quick-coupling circular locking connectors



Available ruggedized I/O connectors:

M8/M12/M23: industrial automation, vibration and shock-resistant

IP67 push/pull locking style: standard connector for All-Weather series

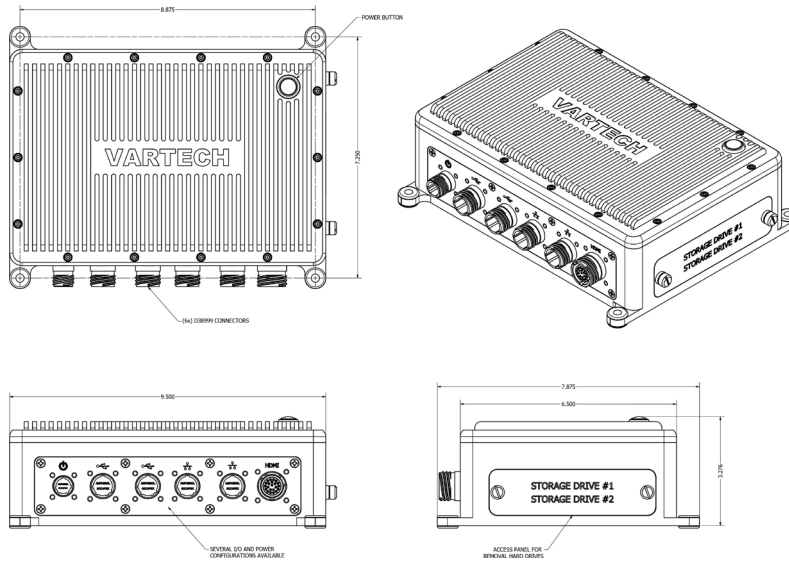


Environmental Functional Upgrade Packages:

VarTech's Environmental Functional Upgrade Packages allow for custom COTS solutions using standard feature sets.

EMI/EMC 461 AS Package	Component Ruggedization Package
<ul style="list-style-type: none"> • All Surface Ingress Protection Coupled with an All Surface Faraday Cage Design • Chromated Metal and EMI Copper Conductive Tape to assure conductivity of Enclosure • Enhanced EMI Conductive Gaskets for MIL-STD 461 protection while maintaining seal up to IP67 • MIL-DTL 38999 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) 	<ul style="list-style-type: none"> • Vibration resistant low-profile video controller board or motherboard • Low profile cable assemblies/connections • Potted components where applicable • Vibration dampening standoffs • MIL-DTL 38999 I/O connectors Designed to meet by using best industry standards: tolerances specified by select subcategories of MIL-STD 810F and/or DEFSTAN 00-35 inclusive of Part 3 Issue 4

Mechanical Drawings:



Over 30 Years of Rugged HMI and Industrial Computer Manufacturing Experience



VARTECH Systems, 11422 Industriplex Blvd. Baton Rouge, Louisiana 70809 | vartechsystems.com
 US & Canada: 800-223-8050 | International: 001-225-298-0300 | sales@vartechsystems.com