

Thermite[®] 3

Model 1000

Tactical Visual Computer

Flexibility Meets Power

Mobile and embedded computers take abuse. Tackling battlefield conditions requires ultra-high-performance computing power and ruggedness. The Thermite 3.0 1000 series of tactical visual computers is the newest in the Thermite line—delivering state-of-the-art embedded computing, mobile graphics, extended environment packaging, and conduction cooling.



The Most Customizable Thermite

The Thermite 3.0 1000 series has been specifically designed to accommodate necessary modifications, allowing optimized computing performance for specific requirements and minimizing obsolescence issues. The system's highly modular design allows for tailoring of the CPU, graphics, video processing, networking, I/O, and storage.

And, of course, just like every Thermite, the 3.0 1000 brings the power of PC workstations to the battlefield—for deployment on tanks, humvees, Bradley Fighting Vehicles, aircraft, maritime, or other vehicles. It is perfect for field-based training, situational awareness, sensor processing/display, mission planning, mission rehearsal, weapon system control, maintenance, and other augmented reality simulations.

The Thermite 3 Difference

Thermite 3.0 tactical visual computers set a new standard for customization and flexibility in field-deployed computing. They combine state-of-the-art field-embedded computing with mobile graphics, conduction cooling, and support for open architecture operating systems. They strike the perfect balance between affordability and performance, delivering ultra-rugged, Military-Spec enclosures; small size; high-performance; and exceptional power efficiency.

Features / Benefits of the TVC 3

- **Modularity** – Provides unique flexibility for tailoring CPU, graphics, video processing, networking, I/O, and storage
- **Power Efficient** – Dynamic power control minimizes consumption and thermal dissipation
- **Designed for Compliance** to MIL-STD-810F, MIL-STD-461E, MIL-STD-1275B, MIL-STD-704F, and STANAG 1008 (contact factory for qualification status)
- **Media Drives** – Removable or integrated, shock-resistant, solid-state drives. Rotating media drive options for development
- **Performance** – 1.6GHz Intel[®] Core 2 Duo LV, with 2 GB or 4 GB system memory
- **Graphics** - Intel[®] Integrated NVIDIA[®] G73GLM GPU with dual video outputs
- **Video Capture** – Quantum3D's Eidetix advanced PCIe-based video capture and processing for real-time video capture

Thermite 3 1000 Series Technical Specifications:


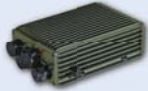



<p>CPU</p> <ul style="list-style-type: none"> Intel Core 2 Duo 1.6 GHz Intel 965GME "Santa Rosa" MCH, ICH8-M south bridge Up to 4MB L2 Cache <p>Memory</p> <ul style="list-style-type: none"> 2 or 4 GB dual-channel DDR2 DRAM <p>Graphics Processor</p> <ul style="list-style-type: none"> Intel® Integrated or NVIDIA® G73GLM 256 MB DDR2 DRAM PCIe x16 interface <p>Operating Systems</p> <ul style="list-style-type: none"> Microsoft® Windows® XP Embedded <p>Removable Storage Options</p> <ul style="list-style-type: none"> Ruggedized 16GB or 96GB SSD with rapid clear 80GB rotating disk drive option for development 	<p>Standard Connectors</p> <ul style="list-style-type: none"> VGA + TV video out Eidetix PCIe video capture IEEE 802.3 10/100/1000 Ethernet Two USB 2.0 2 RS-232C, 1 RS-422 Async 1 RS-422 Synch (SDLC) (factory option) MIL-STD 1553 A/B Dual Redundant Bus (factory option) Development kit available with Commercial Connector Adapter Cable Set, Power Supply, Desktop Mount and Carry/Shipping Case <p>Factory Options (contact factory for availability)</p> <ul style="list-style-type: none"> Additional Eidetix PCIe video capture Stereo Audio in/out and HD Audio DVI or LVDS video output Additional USB 2.0 Additional IEEE 802.3 10/100/1000 Ethernet IEEE 802.11 a/b/g/n wireless Bluetooth 	<p>Factory Options (cont'd)</p> <ul style="list-style-type: none"> GPS Internal drive option Zigbee <p>Power/Performance</p> <ul style="list-style-type: none"> 10 – 36 VDC (per MIL-STD-704F, STANAG 1008, and MIL-STD-1275) (contact factory for qualification testing results) Advanced power-saving technologies Optional 100-240 VAC, 50-60 Hz AC-DC power adapter <p>Dimensions</p> <ul style="list-style-type: none"> 260 mm x 162 mm x 83 mm (D x W x H) (with removable drive bay) 4 kg (8.8 lbs) 4.1 kg (9.1 lbs) typical, including drive bay
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Environmental Specifications*

Environmental Parameter	With Rotating Disk Drive		With Solid State Drive	
	Operating	Non -Operating	Operating	Non -Operating
Ambient Temperature	0° C to +40 °C ¹	-40° C to +70 °C	-25° C ² to +60°C	-40° C to +85 °C
Humidity Level	0% - 100%	0% - 100%	0% - 100%	0% - 100%
Altitude Level ³	-200 to 10,000 ft non-operating	-200 to 40,000 ft	-200 to 40,000 ft	-200 to 40,000 ft
Vibration Resistance ³	1 G, 15 -500 Hz	5 G, 22 -500 Hz	Up to 12 G RMS	Up to 12 G RMS
Shock Resistance ³	Up to 20 G	Up to 40 G	Up to 40 G	Up to 40 G
Immersion Resistance	1m for 30 minutes	1m for 30 minutes	1m for 30 minutes	1m for 30 minutes

*Subject to validation testing, and subject to change at any time. ¹With supplied desktop plinth. ²Contact factory for lower temperature options. ³Designed to meet these operating parameters; contact factory for latest qualification status.

Which Thermite is right for you?

				
Thermite 2.0 TL	Thermite 2.0 1300	Thermite 2.0 3500	Thermite 2.0 6300	Thermite 3.0 1000
The lightest weight Thermite tactical visual computer, this is designed for man-wearable applications in the field.	Balances lighter weight with slightly higher computing power. For use in either man-wearable or vehicle mounting environments.	Designed specifically for vehicle mounting, preferably in environments where 28V vehicle power is available.	Designed for vehicle mounting, this version comes with a docking station that can be instantly removed. Can be quickly secured or swapped.	The newest Thermite, the 3.0 is optimized for extended environment, vehicle-mounting, and video-intensive applications.

P/N TVC3-1000-06-06-08.



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