Thermite® TL 2000
Ruggedized Embedded Computer System

Thin, Light and Ready for Action

The Thermite TL 2000 is the smallest, lightest and most power efficient of Colmek's Thermite family of embedded computers. Designed for field mobility, the Thermite TL 2000's small size, rugged form factor, and low power consumption make it welcome for today's remote battery-powered commercial applications.

The Thermite TL 2000 Difference

Colmek's Thermite TL 2000 is the new standard for rugged mobility. It's small size and low power consumption is deceiving; the Thermite TL 2000 provides efficient processing performance with extended battery life for man-wearable graphics and is well suited for robotic systems, industrial automation, mining and construction, railway and transportation, solar design, military and aerospace and other mobile applications.

Rugged Performance Features

Sturdy, rugged, compact, lightweight and power efficient, the Thermite TL 2000 is designed for use in any environment. By combining embedded computing, conduction cooling technologies, and support for open-architecture operating systems, the Thermite TL 2000 brings performance and capabilities power to meet the needs for mobile commercial applications. The Thermite TL 2000 is the perfect balance of performance, affordability, and ruggedness.

Key Features

- **Lower Power with Higher Performance** – Based on energy efficient Intel® Atom E680 processor with up to 2 GB of system memory the Thermite TL 2000 delivers industry-leading performance in a compact, rugged enclosure.

- **Modular Architecture** - Flexibility for tailoring CPU, graphics, video processing, networking, I/O and storage for your rugged mobile needs.

- **Integrated Graphics** - Intel® Integrated graphics for 2D, 3D and video processing.

- **Power Efficient** – Dynamic power control manages power consumption and thermal dissipation.

- **Versatile I/O** – Six USB ports, RS-232C, 10/100 Ethernet ports, Audio and Video.

- **Storage for your needs** – 60 GB of ruggedized Solid State Storage.

- **MIL-SPEC Chassis & Connectors** - Construction for rugged reliable performance.

Specifications

Technical:

CPU
- Intel® Atom E680T Processor
- Base speed: 1.6 GHz
- Intel EG20 Chipset
- Integrated accelerated 2D/3D graphics

Memory
- 2 GB DDR2 Memory

Data Storage
- 60 GB SSD Storage
- Call Colmek for other disk options.

Video Outputs
- VGA (1) + LVDS (1)
- Dual independent display support

Standard I/O
- 6 x USB 2.0
- Serial I/O (RS-232C)
- Stereo audio output, mono 'mic' input
- IEEE 802.3 10/100 Ethernet

Operating System Options
- Microsoft Windows 7 Embedded
- Microsoft Windows XP Embedded
- Linux (Fedora Core 14 reference config.)
- Other OS options available. Call for details

Advanced Options
- IEEE 802.11 b/g/n WiFi
- Video Capture
- GPS

Power/Performance
- 12 VDC
- 10-15 Watts Operating (typical)
- Hot-swappable battery support, compatible with government BA2590 rechargeable, and commercial Li-Ion, Li-Polymer, and Li-Cobalt
- Smart battery info readable via ACPI

Dimensions & Weight
- 162.6 mm x 111.8 mm x 30.5 mm (6.4 x4.4 x 1.2 inch) (W x H x D)
- 0.75 Kg (1.7 lbs)

Environmental*:

	Operating	Non - Operating
Ambient Temperature	-30° C to +60 °C	-40° C to +85 °C
Humidity Level	10% - 90%, NC	5% - 95%, NC
Altitude Level	-200 to 15,000 ft	-200 to 15,000 ft
Vibration Resistance	Up to 12 G RMS	Up to 12 G RMS
Shock Resistance	Up to 40 G	Up to 40 G
Immersion Resistance	1m for 30 minutes	1m for 30 minutes
*Subject to validation testing, and subject to change at any time without notice.		

- **Designed for MIL-STD-810G -** (temperature, vibration, shock, immersion)
- **Designed for MIL-STD-461E -** (radiated emissions)
- **Conduction Cooled -** No moving parts

Which Thermite is right for you?

Thermite TL 2000	Thermite TVC-2.0	Thermite TVC-3.0
The smallest and lightest of the Thermite embedded computers, designed for light-weight, mobile commercial applications.	Designed for vehicle mounted applications, in environments where 28V power is available.	The most powerful of the Thermite series, with the greatest expandability and flexibility. Ideal for vehicles/aircraft (manned or unmanned).