

BG67Q: High Density Image Generator

This system is just 8 3/8" wide, so that two systems can be installed side-by-side in 3U of rack space. That makes it ideal for military simulators or medical cart applications which require increased IG/GPU density. It features flow-through cooling and rugged design, and can support multiple GPU options and high performance processors.

Performance Characteristics

Supports the Intel® processors and high performance GPUs. Rugged design with supports for high-mass graphics cards. Carefully designed cooling allows for higher power components while maintaining a relatively low acoustic output.

Ergonomics:

The half-width 3U chassis can be paired with a second unit in rack-mount servers. System supports high end graphics cards without the use of a riser. Separate back panel allows for alternate motherboards to meet unique program requirements. Overall dimensions: 8 3/8" (213mm) W x 5 1/8" (130mm) H x 8 3/8" (213mm) D.

Regulatory/Environmental:

Designed for UL/FCC/CE and other regulatory standards compliance.

Lifecycle:

Seven-year component availability.



EmbedTek designs, invents, and manufactures computers, software, sensors, cameras, and displays for original equipment manufacturers. Our systems improve the quality of imaging in healthcare, simulation programs in the military, video analytics in security, and much more. Throw any challenge at us, from demanding environment and ergonomic requirements to High Level Assembly and nonstandard I/O. We'll evaluate it, carefully attack it, and solve it.

Product Realization:

BG67Q



The IG can be mounted two-wide in 3U of rack space, to provide the high GPU density needed for high performance graphic simulation. The entire package was designed around COTS video card dimensions, to provide the smallest footprint without requiring a riser. The resulting durability and flow-through airflow make it an ideal choice for military racks or medical carts.

Design:

Target was rack-based simulator systems that require multiple image generators. The system features a custom chassis built around high end consumer GPUs, combining power supply and motherboard in a small, rugged form factor. The design accommodated the video card without a riser. Specially-engineered airflow for reliable thermal management. Sized to allow two systems to fit side-by-side in 3U of rack space, using standard mounting rails.

Prototypes & Validation:

Prototypes available for software qualification and for physical validation against MIL-STD shock and vibration profiles.

Production, End-of-Life:

Product is produced to order, based on a finished goods schedule extending over multiple years. Lifecycle Planning is critical, based on the nature of the application, and the use of commercial gaming-class video cards. Seven year availability.

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