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General Micro Systems Introduces Latest Fully Isolated, Rugged Multi-Domain Red/Black Server with Intel® Xeon® D and Removable Drives

Small and extremely lightweight, the "Golden-Eyes II" S2002-MD features fully isolated, Red/Black network and server domains, independent power supplies, Intel Xeon processor D with up to 16 cores and 64GB of DDR4 RAM, and a mixture of high and low-speed I/O

RANCHO CUCAMONGA, Calif., Sept. 20, 2016 – General Micro Systems, Inc. (GMS) today announced the availability of the "Golden-Eyes II" S2002-MD multi-domain server, the latest in the "Golden-Eyes" family of ultra-rugged, small, and extremely lightweight computer systems. The Golden-Eyes S2002-MD features two fully isolated and separate Red (non-secure) and Black (classified) network and server domains, and separate power supplies. The unit is ideal for isolated processing, virtual machines, MILS-targeted red/black separated networks, redundant host processors, or any system requiring separated or dual-class CPU configurations.

The Golden-Eyes II S2002-MD fully supports multi-domain, NSA-secure architecture, and features two completely independent Intel® Xeon® D-based servers each with up to 16 cores, and up to 64GB of DDR4 memory with Error Correcting Code (ECC). Designed to withstand harsh outdoor environments where it may be fully exposed to rain, sun, dirt, and in the case of military applications battlefield shock and vibration, the Golden-Eyes S2002-MD is the next generation of the Golden-Eyes SB1002-MD, currently widely deployed in Army MUM-T2 vehicles, robots, and UAVs.

Independent Power Supplies, High Speed I/O & SSD Enhancements
The Golden-Eyes II S2002-MD offers truly independent, electrically isolated power supplies as each domain is equipped with its own MIL-STD-1275 power conditioning module (PCM). The high speed connector allows for reliable high-speed I/O access and supports two channels of 10 Gigabit Ethernet and USB 3.0, enabling product modification for future high-speed technology requirements. Each domain's removable 2.5" SATA or NVMe SSD features an enhanced door design and sealed drive bay, offering users the ability to easily access, open and pull the drive in seconds, while system internals remain protected. An optional fixed M.2 SSD for the operating system is also available.

"Building on our unprecedented modular approach with our computing engines, Golden-Eyes II packs an incredible amount of processing, networking, storage, and more in an incredibly small package," said GMS CEO Benjamin Sharfi. "In my 35 years in the defense electronics industry, I have never been more proud of a product than this one, as we were able to move from concept to deployable project within one year."

Smallest Footprint, RuggedCool^{SM} Technology

At 133 cubic inches, and only 10 pounds, the Golden-Eyes II S2002-MD offers the industry's greatest computing density in one footprint with multiple independent computers, multiple cores, and dual RAM banks. Equipped with the industry's most unique conduction-cooling technique, GMS's patent-pending RuggedCool^{SM} technology, the S2002-MD is the only system that operates from -40°C to +75°C, or +85°C with the use of a thermal accessory. By providing the lowest thermal resistance to the case, RuggedCool^{SM} keeps the CPU within temperature limits at full load, while still providing the highest shock specifications known in the industry. The Golden-Eyes II S2002-MD is a stand-alone, fan-less system and is mounted directly to a metal cold plate surface, providing a reliable conductive thermal path.

Pricing & Availability

Designed for military, defense and aerospace, industrial, and medical applications, the Golden-Eyes II S2002-MD is available in quantity starting at $27,000.

GMS will be demonstrating the S2002-MD, along with its additional computing systems, smart panel PCs and displays, servers, and network/routing/switch equipment at booth # 7549 at the upcoming Association of the United States Army (AUSA) Conference October 3-5, 2016 in Washington, DC.

For more information regarding GMS products, please visit: www.gms4sbc.com

Additional Golden-Eyes II S2002-MD press materials can be found at:
www.gms4sbc.com/products/systems/item/s2002-md
High resolution product photos available here:
www.gms4sbc.com/press/S2002-MD

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About General Micro Systems:

General Micro Systems (GMS) is the industry expert in highest-density, modular, compute-intensive, and rugged small form-factor embedded computing systems, servers, and switches. These powerful systems are ideal for demanding C4ISR defense, aerospace, medical, industrial, and energy exploration applications. GMS is an IEC, AS9100, and MIL-SPEC supplier with infrastructure and operations for long-life, spec-controlled, and configuration-managed programs. Designed from the ground up to provide the highest performance and functionality in the harshest environments on the planet, the company's highly customizable products include GMS Rugged DNA™ with patented RuggedCool^{SM} cooling technology. GMS is also the leader in deployable high-end Intel® processors and a proud Intel partner since 1986. For more information, visit www.gms4sbc.com

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