

SABRE Systems Rugged Mission Computing Solutions

Small Size and Big Performance for Harsh Environment Applications

Sunnyvale, Calif. — May 2, 2018 — Diamond Systems Corporation, a leading global supplier of compact, rugged, I/O-rich embedded computing solutions for real-world applications in a broad range of industries, today unveiled its **Sabre System** family of SabreCom mission computers. The SabreCom products are based on Diamond's line of I/O-rich SBCs and COM-based SBCs. Sabre Systems feature a full IP67 rating and MIL-STD-810G compatibility, making them ideal for vehicle and other harsh environment applications.



SabreCom system with Bay Trail or Apollo Lake SBC

The [SabreCom](#) mission computer systems provide an attractive combination of size, price, and performance to the rugged embedded computing market. The core of these systems is Diamond's line of rugged, I/O-rich single-board computers: [VENUS](#) (Intel Skylake Core i7-6600U processor), [ARIES](#) (Intel Bay Trail E3845 processor), and [ZETA](#) (Intel Bay Trail E3825 and Apollo Lake E3940/N4200 processor). ([Model details](#)) Each of these SBCs uses efficient conduction cooling to transfer heat directly to the enclosure's top heat sink surface, keeping electronics cooler for more reliable performance and longer lifetime at elevated temperatures. Each model can be easily customized by installing PC/104 modules or PCIe minicards to provide additional I/O unique to each application.

Sabre Systems' rugged performance is assured with full IP67 construction, -40 to +85°C operation, and MIL-STD-810 shock and vibration compliance. MIL-DTL-38999 connectors provide connectivity with customizable connector types and pinout available.

Additional customizable options are possible including compliance to MIL-STD-461, MIL-STD-704, and/or MIL-STD-1275 specifications, removable flash storage and optional power supply. The systems' three piece design allows for easy modifications on height and dimensions.



Sabre Systems are designed in two standard sizes to accommodate the available small and smaller form factors of SBCs. 6.4"W x 5.4"D x 2.6"H (left, Type I); 7.8"W x 6.9"D x 2.6"H (right, Type II)

SabreCom mission computers include the following models:

Product	SabreCom ARS	SabreCom VNS	SabreCom ZTA
Processor Options	Bay Trail E3845	Skylake Core i7-6600U	Bay Trail E3815 Apollo Lake E3940 Apollo Lake N4200
Single Board Computer	Aries	Venus	Zeta

Availability and Pricing

SabreCOM systems are currently available and shipping. Pricing starts at \$3300 dependent upon choice of CPU and quantity. For quantity pricing and special-order options contact Diamond Systems at sales@diamondsystems.com.

About Diamond Systems

Diamond Systems Corporation is a global provider of rugged, I/O-rich embedded computing solutions for companies in a broad range of markets, including transportation, energy, aerospace, defense, manufacturing, medical and research. Diamond's extensive product line includes compact, highly integrated single board computers (SBCs); an extensive line of expansion modules for analog and digital I/O, wired and wireless communications including multiprotocol serial ports and Ethernet switches; and complete, rugged, system-level solutions. For further information, please visit www.diamondsystems.com.

Web Resources

- ◆ Sabre rugged systems web page: <http://www.diamondsystems.com/products/sabre.php>
- ◆ SabreCom Computers web page: <http://www.diamondsystems.com/products/sabrecom>

DIAMOND SYSTEMS MEDIA CONTACT:

Mark Wilson
mwilson@diamondsystems.com
 Direct: +1-650-810-2514

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