SABRECOM 300 Rugged Integrated Mission Computer with Core i7 / Xeon SBC + Managed Gigabit Ethernet Switch











FEATURES

Intel Core-i7 7th , 11th , or 13th gen processor 20-64GB RAM

128GB-2TB integrated solid state flashdisk

Choice of Linux or Windows 64-bit OS

7 or 15 1Gb copper Ethernet ports with Layer 2 management software HDMI, USB3, USB2, RS-

232/422/485, and GPIO (quantity varies by SBC)

Optional 16-bit data acquisition with autocalibration

Customizable with I/O expansion modules

Choice of MIL-STD-461 filter or isolated power supply with MIL-STD-461/704/1275 filtering

Rugged enclosure with IP67 rating

MIL-DTL-38999 connectors for power and general I/O Specialized high-speed

connectors for HDMI and USB 3.0

Designed to meet MIL-STD-810H shock and vibration requirements

Internal boards qualified for MIL-STD-202H shock and vibration requirements

-40 to +75C operating temperature

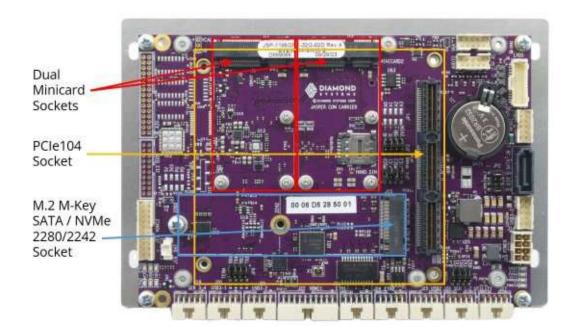
Dimensions W \times H \times D (overall including mounting feet): 111 \times 174 \times 237mm / 4.4 \times 6.9 \times 9.3"

SabreCom-300 series systems combine a full-featured x86 SBC with a managed Ethernet switch in a rugged, sealed enclosure designed to withstand the harshest of environments. All boards and components are tested or designed to meet MIL-STD-202 and -810 levels of shock and vibration. The flexible architecture supports multiple

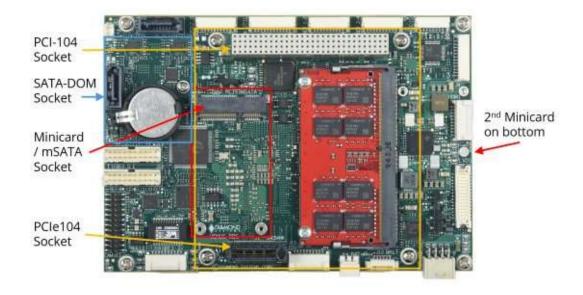
options for SBC configuration, solid-state mass storage, operating system, Ethernet switch, power supply, and I/O:

SBC	Sabrecom-300 is designed around Diamond's Jasper and Venus rugged SBCs. Choose from a variety of Intel Core i7 processors from 7th up to 13th generation, with 20-64GB RAM, depending on your power, performance, and budget.
Mass Storage	Choose from a range of solid state SATA mass storage devices ranging from 128GB up to 2TB.
Operating System	Choose from Linux or Windows 10 64-bit OS with full BSP support for all I/O available on the SBC.
Ethernet Switch	Choose from 7 or 15 1Gb copper ports with Layer 2 management software built in.
Power Supply	For full performance a rugged power supply with 9-60VDC input, MIL-STD-461/704/1275 filtering, and isolation is available. For more economical solutions a MIL-STD-461 filter board can be installed, reducing the input voltage range to the SBC's native input range.
I/O	Each system includes most or all available I/O on the integrated SBC. On systems using the Jasper SBC, an optional 16-bit analog I/O circuit is available. I/O expansion can be accomplished by installing up to 1 PCIe104 module or up to 2 PCIe/USB minicards. Space is available on the front panel to install I/O connectors for the additional I/O. High- speed interfaces such as USB3.0 and HDMI are supported via dedicated high-speed connectors.

SabreCom-300 can accommodate up to 1 PCI-104 / PCIe104 I/O module or up to 2 PCIe/USB minicards. Depending on the nature and number of added I/O signals, the I/O may be combined onto existing connectors, or a new connectors may be added to the front panel, involving a nominal design fee. The integrated SSD mass storage options range from 128GB to 2TB.

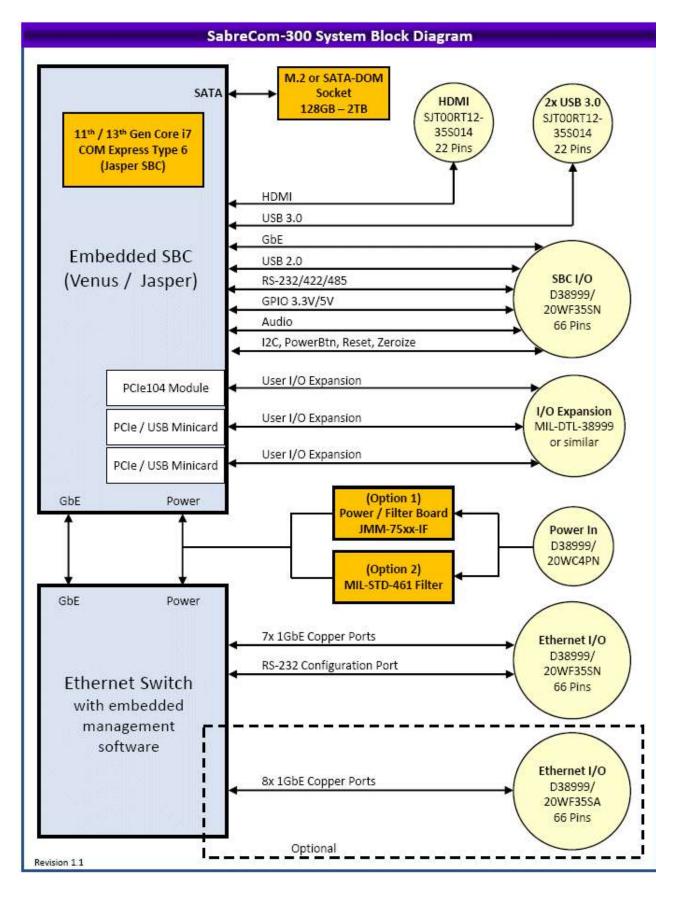


Jasper SBC expansion and mass storage sockets



Venus SBC expansion and mass storage sockets





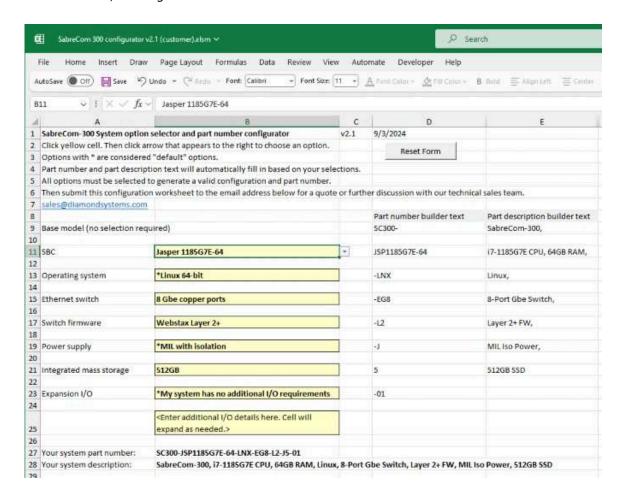
Ordering Information

Now to Order

SabreCom-300 systems offer a large number of standard configuration options. They can also be customized with more I/O or modified connector types and pinouts. All the standard options are shown in our configuration worksheet. You can **download the worksheet**, fill it in, and submit it to us to request a quote.

Available options include:

- Choice of processor and RAM capacity
- Operating system (Windows 10 / Ubuntu Linux)
- Ethernet switch port count
- Integrated power supply
- Integrated SSD
- Custom I/O using PCIe minicard and PCIe104 modules



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