

MEN Micro

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**F17 Core 2 Duo SBC**

The F17 is a versatile 3U single board computer based on the latest Intel® 64-bit multicore high-performance Core 2 Duo processor running at 2.16 GHz. The SBC is designed especially for embedded systems that require high computing and graphics performance and low power consumption, including computer monitoring, visualization and control, test and measurement, traffic and transportation as well as medical engineering and shipbuilding.

The single-slot F17 can function as a 32-bit, 33 MHz system board for CompactPCI and CompactPCI Express systems or as a standalone board. The SBC is equipped with Intel's Mobile 945GM Express chipset that offers six PCI Express lines as well as two SATA lines, making the F17 ideal for applications with high communication requirements.

Standard I/O on the front panel includes a VGA connector, two Gigabit Ethernet interfaces connected via PCI Express as well as two USB 2.0 ports. Additional I/O functions, which include two DVI connections, a variety of UARTs and other USB 2.0 ports, can be added via side cards.

The F17 features 4 MB of L2 cache integrated into the Core 2 Duo and up to 4 GB of fast DDR2 DRAM. In addition, a CompactFlash slot can be equipped with a 1.8" hard disk offering unlimited memory space.

The board comes with various monitors for processor operation, board temperature, and rear I/O as well as with board support packages for Windows, Linux, VxWorks, and QNX.

The F17 is equipped with a tailored passive heat sink and its components have been soldered against shock and vibration according to applicable DIN, EN, and IEC industry standards. In addition, the F17 can be conformally coated to protect the board from humid or dusty environments. Because it employs components from the Intel Embedded line, the F17 has a guaranteed minimum standard availability of five years.

The F17 is the newest expansion to MEN Micro's high-performance Intel-based low power family of interchangeable 3U CompactPCI SBCs and makes the new Core 2 Duo processor technology available for use in a wider range of harsh industrial applications.

**FEATURES**

- › Versatile 3U SBC based on the latest Intel® 64-bit multicore high-performance Core 2 Duo processor running at 2.16 GHz
- › 32-bit, 33 MHz single-slot system board for CompactPCI and CompactPCI Express systems or standalone board
- › Ideal for harsh environments – computer monitoring, visualization/control, test and measurement, transportation, medical, and shipbuilding
- › Features six PCI Express lines and two SATA lines to satisfy applications with high communication requirements
- › Front panel standard I/O include a VGA connector, two Gigabit Ethernet interfaces connected via PCI Express, and two USB 2 ports
- › Side cards provide additional I/O functions such as two DVI connections, a variety of UARTs, and other USB 2.0 ports
- › 4 MB of L2 cache integrated into the Core 2 Duo and up to 4 GB of fast DDR2 DRAM
- › CompactFlash slot can be equipped with a 1.8" hard disk offering unlimited memory space
- › Board support packages for Windows, Linux, VxWorks, and QNX
- › Employing Intel Embedded components guarantees minimum standard availability of five years
- › Meets DIN, EN, and IEC shock and vibration standards
- › Can be conformally coated to protect the board from humid or dusty environments