

CEIBO DS-251 In-Circuit Emulator

- Real-Time and Transparent In-Circuit Emulator
- Standard 256K Emulation Memory & Performance Analyzer
- Real-Time Trace Up to 512K Frames Deep, 104 Bits Wide
- Complex Hardware Breakpoints
- Supports Both Binary and Source Modes
- Software For MS-Windows*
- High Level Support For Popular C-Compilers
- Full Support of Local and Global Variables
- On-Line Assembler and Disassembler
- Serially Linked to IBM PC at 115 Kbaud



CEIBO DS-251 is a real-time in-circuit emulator dedicated to the Intel MCS[®] 251 microcontrollers. It is serially linked at 115 Kbaud to a PC or compatible host. DS-251 emulates Intel microcontrollers using either the built-in clock oscillator or any other clock source connected to the microcontroller. Frequency is up to the maximum specified by Intel. DS-251 provides 256 KBytes of code memory with software mapping and banking capabilities. Breakpoints allow real-time program execution until an opcode is executed at a specified address. Breakpoints on data read or write and an AND/OR combination of two external signals are also implemented. A complete set of conditional breakpoints permit halting program emulation on code addresses, source code lines, access to external and on-chip memory, port and register contents. The MS-Windows software includes source level debugger for PLM and C, performance analyzer, on-line assembler and disassembler, conditional breakpoints and many other features.

The DS-251 Source Level Debugger includes commands that allow the user to access all the necessary information for testing programs and hardware in real-

time. The commands permit setting breakpoints on high-level language lines, add a watch window with the symbols and variables, modify variables, display floating point values, display the trace buffer, execute assembly steps and many more useful functions. The system can be configured into either binary or source mode. When configured in binary mode, it is binary code compatible with 8051 microcontrollers and can execute the application code directly without modifying it and improving the performance of your system. Files generated by the most common MCS[®] 51 and MCS 251 microcontroller assemblers and high-level language compilers are accepted by the DS-251. Standard systems are supplied with MS-Windows debugger, 256 Kbytes of internal memory, 128K hardware breakpoints, real-time trace memory and logic analyzer with external test points and personality probe C251.

MICROCONTROLLERS
SUPPORTED:
8xC251Sx

DEVELOPMENT PLATFORMS:
IBM PC or compatible with one RS-232
port

AVAILABILITY:
Now

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