



In-Circuit DProbe386EX Emulator

Professional Development System For Intel 386EX

Hitex offers a powerful and easy to use debug tool for the i386EX processor. The DProbe386EX includes all the necessary debug features and functionality for software and system integration engineers.

Effective Debugging

Operation is greatly enhanced through an easy to use Microsoft Windows based debug interface, which provides all the advantages software engineers expect from a powerful development tool. The DProbe386EX uses the latest bondout technology to achieve full transparency of the microprocessor.

Wide Range Of Performance

With a wide range of features, the DProbe386EX guarantees fast bug finding and enhanced software quality. The DProbe386EX is an invaluable tool for the development of real-time applications and for integration into the target hardware. The time-to-market is significantly decreased.

HiLights

- Supports the CPU's full speed ranges and operating voltages
- No use of resources in the target system
- Zero wait state access to local overlay memory
- Support for commonly used compilers and languages
- Optional: efficient trace system and larger simulation memory
- Investment saving upgradeability
- Microsoft Windows based user interface
- Online Help: the complete manual as Hypertext
- Multitasking: Editor, Compiler and Debugger are available simultaneously
- User configurable ICON Control Panel for frequently used commands and macros
- Cut and paste: simple exchange of data with other Windows applications



The company

Hitex was formed in 1976 and has focused on efficient and professional solutions in the field of microprocessor development. Since then, we have been operating successfully in the fields of

DEVELOPMENT TOOLS AUTOMATION ENGINEERING

As a leading manufacturer of development tools for microprocessor systems, we are known worldwide by our customers, our partners and by the chip manufacturers. Our expert staff for automation engineering provides tailored solutions to your most complex design challenges.

In the field of DEVELOPMENT TOOLS each processor architecture has its own team. Each team member is well-acquainted with the relevant microprocessor and the entire tool chain. This ensures reliable support, including useful tips on application – at every stage.

Technical Data

Emulation Processor	Intel 386EX Bondout processor allows fully transparent, non-intrusive debugging: - Access to hidden descriptor registers (read and write) - No user input of GDT-Base and IDT-Base required.
Operating Frequency	0...33 MHz (66 MHz XTAL); high-speed memory allows zero wait state accesses at 33 MHz.
Real-time Emulation	System dedicated to real-time emulation, trace recording without real-time violation; execution events can be configured as pass-points.
Emulation Memory Granularity	384 kBytes, smallest block size 8 kBytes; or 1,5 MBytes, smallest block size 32 kBytes. Mapped areas can be write protected.
Trigger/Breakpoints	Trigger can be programmed with pre-/post trigger (0%, 10%,...90%, 100%), 4 execution events (using debug registers) 2 bus events (using external comparators): address match, masking of single bits, data match, bus status, predefined status. 256 software breakpoints; trace buffer "full breakpoint"
Sequence Levels	2 levels; trace recording can be controlled using Trace On, Trace Off
Trace	64 k samples (frames); space saving bus cycle recording
Control Lines	Target signals can be set inactive (i.e. NMI, SMI, NA#)
Built-in Clock Generator	Range 1 MHz to 66 MHz
Debugger Interfaces	Hitex WinProbe Full Support of Real, Protected and System Management Mode.
High Level Language Support	Support of Intel, Microsoft, Metaware, Microtec Research, Borland, Paradigm, SSI, CAD-UL, Phar Lap, Alsys Data, DDC-I-Ada, Watcom
Host Connection	High-speed parallel 8 Bit interface; plug-in card for 16 Bit ISA slot.
Power Supply	Wide voltage input, 85...260 V VAC autodetection; 50/60 Hz.
Target Interface	Hardware implemented for 3 and 5 Volt support.

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