

iC3000HS

The Compact Development System

The iC3000HS ActiveEmulator™ is the ultimate tool for high performance micro-controller based embedded applications. It incorporates major innovation in a compact package, covering the widest variety of development environments.

The iC3000HS supports all famous OnChipEmulation technologies like BDM, SDI, Once, JTAG and Nexus for OnChipDebugging. For OnChipTrace ETM and Nexus solutions are available.

It may also be configured to support comprehensive, real-time high-speed in-circuit emulation up to 100MHz bus speed using iSYSTEM's unique ActivePOD™ technology.

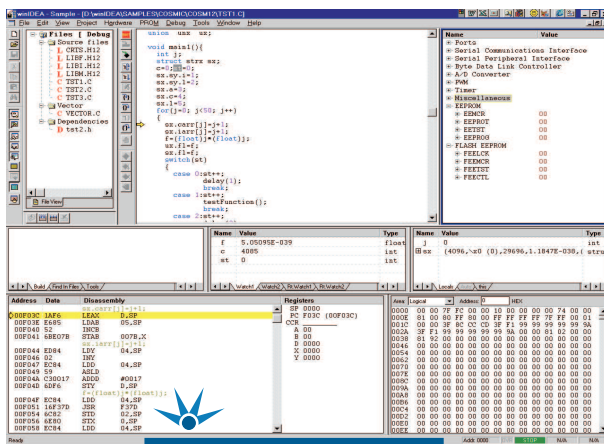
The new "swap the card" technology preserves the investment in the iC3000HS unit while providing adaptability to a wide range of target MCUs and debug methodologies.



 iC3000HS with ActivePRO POD

iC3000HS ActiveEmulator Features:

- ▶ OnChipDebug: BDM, SDI, OnCE, JTAG and NEXUS
- ▶ OnChipTrace: ETM and Nexus
- ▶ In-Circuit Emulation up to 100MHz real-time
- ▶ Real-Time Trace with Hardware Pipeline Reconstruction (HPR)
- ▶ Hardware & Software breakpoints
- ▶ Variable clock speed
- ▶ Multiple voltage interface (2V/3V/5V)
- ▶ Multi processor support
- ▶ Flash programming: OnChip and InSystem
- ▶ PC-Host interface: USB2.0, COM and Ethernet TCP/IP (100 Mbit/s)
- ▶ Power supply: 8-24V DC / 90-240V AC
- ▶ Ideal for mobile operation
- ▶ Compact size: 26*92*120mm
- ▶ winIDEA Integrated Development Environment driven



 winIDEA - the powerful Integrated Development Environment

iC3000HS - the compact emulator

The iC3000HS ActiveEmulator is the latest in a long line of universal development tools from iSYSTEM. Utilizing SMD technology and highly integrated FPGAs, the iC3000HS packs plenty of powerful innovations in a small, compact package. It is the ideal solution for mobile applications and desktop use as well.

iC3000HS

The Compact Development System

For its power supply, the iC3000HS accepts direct input of DC 24V, or AC power 90 - 240V with the supplied external auto sensing power supply. High speed communication to the host PC is essential for optimum performance. The iC3000HS is equipped with a 115kbps COM and a USB2.0 interface. An Ethernet IEEE 802.3 interface (RJ45 / 100Mbps) supporting the TCP/IP protocol is also available.

To maximize flexibility in communicating with the target system, the iC3000HS includes a small card slot. The slot accepts iCARD, iTRACE and ActiveEmulator interface cards. For OnChip Emulation support the iCARD interfaces to all the famous OnChipDebug interfaces like BDM, SDI, OnCE, JTAG and Nexus. iSYSTEM has developed an iCARD for each supported micro controller family. Simply "swap the card" to support a new MC family. The iTRACE plug-in card is universal and makes extensive OnChipTrace support available. Different active target adapters for ARM's Embedded Trace Macro cell (ETM) interface and the standardised NEXUS trace interface make the connection to the target system simple. iTRACE does include the corresponding OnChipDebug interface as well. For ease of use and durability, the slot and cards are the same size and form factor as the familiar PCMCIA technology.

Standard features include: hot-insert to the target while the target is running, on-chip programming, in-system programming, and generation of programming voltage. The prescribed programming voltage is generated by the iC3000HS development system and provided to the target system through the iCARD or iTRACE active adapter.

ActivePOD™ and ActivePRO POD high-speed in-circuit emulation

The Active(PRO)Emulator interface card connects the iC3000HS with an Active(PRO)POD for full real-time in-circuit emulation and trace. The Active(PRO)POD provides real-time high-speed in-circuit emulation up to 100MHz bus speed. The dramatic increase in embedded systems bus speeds has created new challenges for real-time emulation. iSYSTEM has met the challenge by developing its all-new ActivePOD technology, which brings much of the emulation hardware closer to the target system.

All critical functions such as overlay memory, break, trace and trigger logic reside in a single high-speed RAM-based FPGA at the ActivePOD. This "system on chip" integration assures very short timing delays for all necessary transactions. The ActivePOD is connected to an iCARD which in turn is plugged into the PCMCIA-style slot on the compact iC3000HS emulator clean and simple.

iC3000HS ActiveEmulator and winIDEA - the adaptable team

The iC3000HS ActiveEmulator is a universal and adaptable emulator solution for high performance applications. By swapping the iCARD and ActivePOD, the system is reconfigured for an alternate target microcontroller, preserving your investment in the basic iC3000HS system.

Likewise, the software interface to the iC3000HS is also adaptable. The winIDEA integrated development environment includes project management, integration of all popular compilers/assemblers, make & build, and debugger. One easy-to-use interface for all your embedded development needs.

iC3000HS Device Support

The iC3000HS currently supports the following microcontroller families.

OnChip Debug Support:

68HC12	MAC7x00	MPC55xx
683xx	M-CORE	MPC85xx
ARC	MC9S12	MSP430
ARM7	MC9S12X	PPC4xx
ARM9	MPC5xx	PPC7xx
Coldfire	MPC6xx	V850
CR16	MPC7xx	XC166/XC2000
HCS08	MPC8xx	XC800

OnChip Trace Support:

ARM7	HCS08	MSP430
ARM9	MC9S12	PPC4xx
ARM Cortex	MC9S12X	XScale
Coldfire	MPC5xx	
CR16	MPC55xx	

Active(PRO)POD Support:

68HC08	CoolIRIS	SDA55xx
68HC12	COP8	TMS470
68K	MC9S12	V850
78K0	MC9S12X	VCT38xx

Detailed information regarding order codes are available at our Product Selection Guide.

More information at <http://www.isystem.com>

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