The iC2000 PowerEmulator™ is a modular development system supporting 8-, 16- and 32-bit microcontroller based embedded applications. It incorporates major innovation in a compact package, covering a wide variety of development environments.

**The iC2000 Base Unit**

The iC2000 development systems start with a Base Unit, which is responsible for power distribution, control of other optional modules and high-speed communication with the host PC. A serial (COMx) and a high speed parallel interface (LPTx:) are standard. In addition to the regular Base Unit, there is one more Base Unit available: the Base Unit II with additional USB and Ethernet as standard communication interface. Any of the Base Units are capable of carrying the optional bolt-on Emulator Modules and Trace Modules. The combination of several Base Units, Emulator Modules and Trace Modules to choose from permit the configuration of a system ideally suited to the users’ particular requirements.

**iC2000 Base Unit Features:**

- Modular development system
- Expandable to PowerPOD in-circuit emulation for a wide range of 4 - 32-bit microcontrollers
- Serial Debug interface support for:
  - SDI
  - BDM
- Hardware and software breakpoints
- On-chip and in-system flash programming
- Multi processor support
- LPT and COM high speed PC interfaces
- USB and Ethernet (TCP/IP) interface optional
- AC-Power supply 90V-240V
- Compact size (250mm x 200mm x 35mm)
- Driven with winIDEA™ Integrated Development Environment
- Source level debugging for C and ASM

* If provided on the microcontroller
Base Unit Power and Communication

All iC2000 Base Units are packaged in a rugged, compact case ideal for desktop or lab use. For its power supply, the iC2000 Base Unit accepts AC power from 90V - 240V with a supplied external auto sensing power supply.

High speed communication to the host PC is essential for effective development. The iC2000 Base Units are equipped with a high-speed RS232C serial interface (COM) communicating at 115kbps and high-speed parallel interface (LPT) with a transfer rate up to 100kBps. A Universal Serial Bus (USB) interface operating at 12 Mhz is standard at Base Unit II. The Ethernet IEEE802.3 interface (RJ45/10Mbps) supporting the TCP/IP protocol is also available.

Supported Devices

- 68HC12
- 68HC16
- 683xx

BDM-Interface

An optional BDM/SDI interface is available, which makes the Base Units a powerful yet affordable development system for 16-bit microcontrollers with a BDM or SDI interface on the chip.

The iC2000 Base Units are capable of carrying the optional PowerEmulator and PowerTrace Modules. The PowerEmulator Module in turn connects to any of iSYSTEM’s PowerPODs, with support for over 400 varieties of 4-, 8-, 16- and 32-bit microcontrollers.

iC2000 PowerEmulator and winIDEA -- the adaptable team

The iC2000 PowerEmulator is a universal and adaptable emulator solution for high performance applications. By swapping the PowerPODs, the system is reconfigured for an alternate target microcontroller, preserving your investment in the base iC2000 system. Likewise, the software interface to the iC2000 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.

iC2000 Device Support

The iC2000 Base Unit with a PowerEmulator module provides full in-circuit emulation for over 400 varieties of MCUs. Check our web site for the most recent information on device support.

Supported Devices

The iC2000 PowerEmulator Module in turn connects to any of iSYSTEM’s PowerPODs, with support for over 400 varieties of 4-, 8-, 16- and 32-bit microcontrollers.

Supported Devices

- 68HC12
- 68HC16
- 683xx

BDM-Interface

An optional BDM/SDI interface is available, which makes the Base Units a powerful yet affordable development system for 16-bit microcontrollers with a BDM or SDI interface on the chip.

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