*Hi-end, affordable emulator for 8051 microcontrollers with project IDE*

The Phyton line of emulators helps programmers complete their projects on-time and under budget, offering them quality products at competitive values. With Phyton's 1-year warranty, developers are assured that they will have the assistance that they need during development time.

- Non-intrusive emulation of microcontrollers from Atmel, Philips, Intel, Winbond, and other manufacturers*
- Up to 80 MHz** real-time support of 8051 derivatives with several clock modes at 1.2V to 5V
- Up to 1M Bytes of program memory and 512K Bytes of Xdata memory**
- Finest memory mapping with one byte resolution
- Memory banking feature - 16 banks by 64K
- Up to 1M true hardware breakpoints at Program memory
- Up to 1M true hardware breakpoints at Xdata memory address access for Read, Write or Read/Write operations
- Breakpoints on access to on-chip data memories: direct data memory (incl. SFRs), on-chip Xdata memory, and EEPROM
- Four complex breakpoints and triggers
- 16K to 64K frames x 128 bit real-time tracer
- Tracing in synchronies, forward, reverse and dynamic modes
- Shadowing of on-chip Xdata, EEPROM and Flash memories
- "On-the-fly" access to the code memory, shadow memory, breakpoints, tracer and timer
- True hardware real-time Performance Analyzer
- Programmable Code/Data Coverage Monitoring for Code, Xdata, on-chip Xdata or EEPROM memories coverage

- 48-bit timer provides timing and measurement with 0.1% accuracy
- Enables working with either internal or external clocks
- Internal clock programming in a range from 1 KHz to Max. with 0.5% accuracy
- On-board voltage regulator precisely auto-adjusts to the target's voltage or can be programmed in the range from 1.2V to 5.5V with +/-20 mV accuracy
- 8 probe inputs and 4 trigger outputs
- High-speed host link via USB or Serial PC ports
- Very small - a palm size header enclosed in a plastic case that plugs directly to a target socket without extra ribbon cables and pods
- Project-level support and source-level debugging for all popular C compilers: editing, compiling, debugging in one development IDE
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- Embedded C-like script language for automated testing
- ChipProg+ programmer can be integrated in the Project-52 IDE
- Lifetime free software update via Phyton's web site*

\* Visit http://www.phyton.com to get the newest software update and list of supported devices

\*\* Depends on a particular MCU architecture, type and conditions of use

Phyton offers a complete hardware / software tool solution for
virtually all 8051 microcontrollers
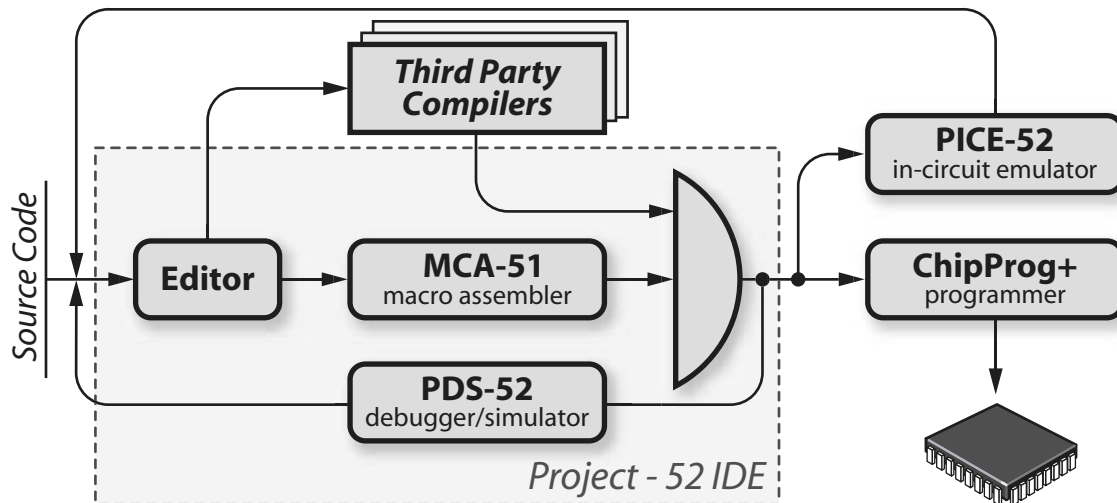


A full package includes:

- MCA-51 macro assembler
- PDS-52 software debugger/simulator
- PICE-52 in-circuit emulator
- ChipProg+ universal programmer

All tools are fully integrated and controllable through the project IDE. Optionally bundled with best third parties' compilers this comprehensive tool set provides all development software and hardware, including source code editing, project management, debugging, and support for "burning" compiled code into a target microcontroller or memory devices. Phyton provides a true one-stop-tool-shop for 8051 users!
By selecting a Project-52 configuration, you can choose a custom development tool set, creating an environment that fits your needs and budget.