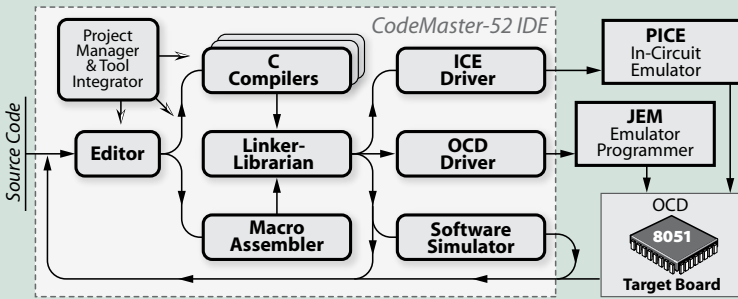


- Supports a variety of 8051 microcontrollers from Atmel, Philips, Dallas Semiconductor, SST, Winbond, and other manufacturers
- Integrates all the tools necessary to start and complete development in one easy-to-use environment
- Provides project management and source-level debugging for popular C compilers and assemblers from IAR Systems, Keil Software, Raisonance, Altium, Hi-Tech Software, and other tool vendors
- Includes free “lite” C compiler, fully capable micro assembler and software simulator
- Includes hardware debugger-emulator and programmer for microcontrollers with on-chip debug capabilities, including JTAG (see details on the opposite side)
- Includes real-time in-circuit emulator and tracer (see details on the opposite side)



Tool, included in a CM-52 kit at the right	CodeMaster-52 kit order codes				
	CM-52/Free	CM-52/D	CM-52/E	CM-52/CD	CM-52/CE
Project Manager	✓	✓	✓	✓	✓
Compiler options	Limited	Limited	Limited	✓	✓
Macro Assembler	✓	✓	✓	✓	✓
Software simulator	✓	✓	✓	✓	✓
JEM-52 OCD driver	Limited	✓	Limited	✓	Limited
PICE-52 ICE driver	✓	✓	✓	✓	✓
PICE-52 emulator	✓	✓	✓	✓	✓
JEM-52 emulator	✓	✓	✓	✓	✓
Target boards	Compatible with JEM-52. Sold separately				



PICE-52 In-Circuit Emulator

- Accurate and non-intrusive emulation by Enhanced Hooks and special bondouts*
- Up to 80 MHz real-time support for derivatives with 12-, 6-, 4-, 2- and 1-clock modes at 2.0 to 5.5V
- Up to 2M Bytes of program memory and 448K Bytes of Xdata memory
- External memory banking support
- Up to 2M code hardware breakpoints
- Up to 1M hardware breakpoints for Xdata
- Breakpoints on access to on-chip data memories: direct data memory, SFRs, on-chip Xdata memory, and EEPROM
- Four complex breakpoints and triggers
- 16K frames x 128 bit real-time tracer
- Shadowing for on-chip Xdata, EEPROM and Flash memories
- "On-the-fly" access to main emulator resources
- Real-time Performance Analyzer
- Programmable Code/Data Coverage
- 48-bit timer
- Internal or external clocks
- Programmable internal clock
- On-board voltage regulator
- 8 probe inputs and 4 trigger outputs
- USB or RS-232C PC interface
- Embedded C-like script language for automated testing



JEM-52 On-Chip Debugger and Programmer

- Reconfigurable for several OCD interfaces: JTAG, JTAG-like, I²C-like, two wire, etc.*
- Target operation system clock from 8 KHz to 33 MHz
- Built-in programmable clock synthesizer from 8 kHz to 100 MHz
- Can be clocked by internal and external clock generator or crystal
- Smart FLASH programming to minimize FLASH erase/program cycles
- Real-time run and single-step execution modes
- True hardware breakpoints limited to the target breakpoint capability
- Stack Over/Underflow breakpoints
- Watch-dog timer breakpoints
- Hardware tracer limited by the target MCU's embedded tracer capability
- Software trace capability
- Wide-range target operational voltage tolerance - 2.0 to 5.5V
- Communicates to a PC via a USB port
- Transmits 4.0V power to the target
- Target boards are available
- Embedded C-like script language for automated testing

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

© 2006 Phyton, Inc. Microsystems and Development Tools. All rights reserved.