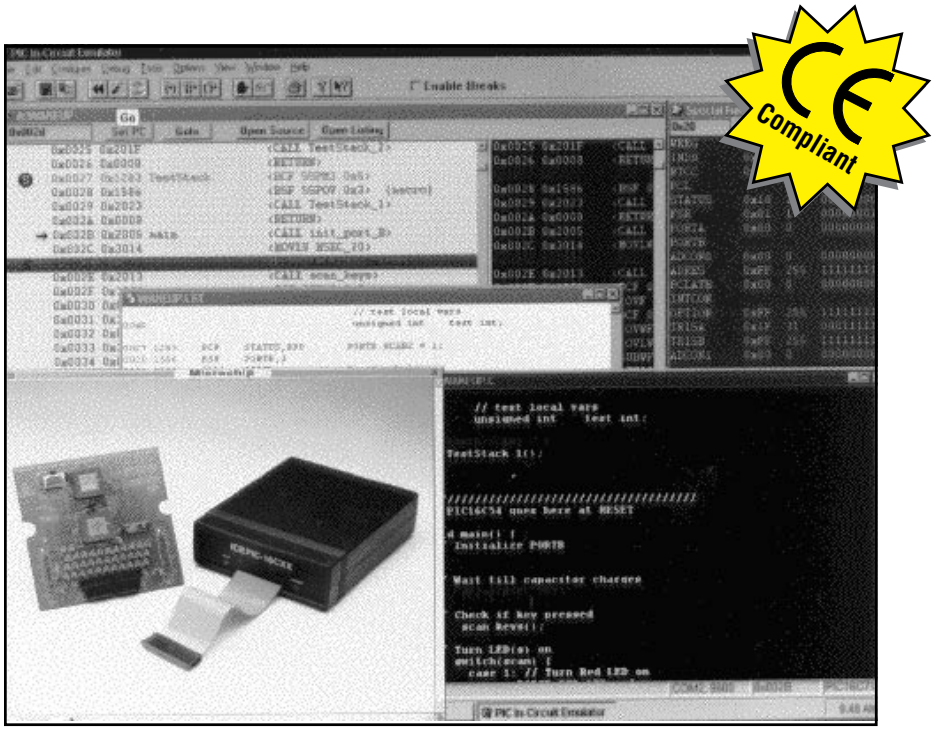
ICEPIC

Low-Cost PIC16CXX In-Circuit Emulator System



ICEPIC: Affordable PIC16CXX In-Circuit Emulation Solution.

ICEPIC is a low-cost in-circuit emulation solution for the Microchip Technology PIC16C5X and PIC16CXX families of 8-bit one-time-programmable (OTP) microcontrollers. The modular system can support different subsets of PIC16C5X or PIC16CXX products through the use of interchangeable personality modules or daughter boards. The emulator is capable of emulating without target application circuitry being present.

ICEPIC is designed to operate on PC-compatible machines ranging from 286-AT® systems through the new Pentium™ based machines. The ICEPIC development software runs under Microsoft Windows® 3.X environment, allowing the operator access to a wide range of supporting software accessories.

The ICEPIC development software provides a user-friendly operating environment with an easy-to-use toolbar; unlimited number of breakpoints; single, multiple and procedure step; ability to display and modify any register; user-selectable processor speeds via an oscillator module; full context-sensitive help and an RS-232 serial port.

ICEPIC is fully compatible with Microchip's MPASM Universal Assembler and MPLAB-C Compiler. ICEPIC is CE compliant, meaning it meets or exceeds all the directives for safety, emissions, ESD and susceptibility (to radiated emission) requirements set forth by the European Union (EU) countries.

Features:

- Real time, non-intrusive emulation of PIC16C5X and PIC16CXX microcontrollers
- 8K words of emulation memory
- Full speed, real time emulation to 20 MHz for PIC16C5X family
- Up to 10 MHz real time emulation for PIC16CXX family
- Microsoft Windows® compatible
- Source level debug capability in assembly or C
- Symbolic debug capability
- 8K hardware breakpoints
- Custom watch points
- PC communication via serial interface at speeds up to 57K baud
- Display and modify any register (Program or Data)
- User selectable processor speeds (via oscillator module)

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ICEPIC

Ordering Information:

Model Name	Ordering Part Number	Devices Supported
Complete Emulator Systems:		
ICEPIC5X	EM167201	16C54/54A, 55,56,57,58A
ICEPIC62X	EM167202	16C620,621, 622
ICEPIC64	EM167203	16C64,62
ICEPIC74	EM167204	16C74,73, 65,63
ICEPIC71	EM167205	16C71,61
ICEPIC84	EM167206	16C84
Daughter Boards:		
ICEPICDB5X	AC165201	16C54/54A, 55,56,57,58A
ICEPICDB62X	AC165202	16C620, 621,622
ICEPICDB64	AC165203	16C64,62
ICEPICDB74	AC165204	16C74,73, 65,63
ICEPICDB71	AC165205	16C71,61
ICEPICDB84	AC165206	16C84
Base Unit Only Without Daughter Board:		
ICEPIC POD	EM167200	All

System Description:

The low-cost PC-based ICEPIC In-Circuit Emulator system comes with an emulator unit (mother board), power supply, RS-232 cable, probe header cable(s) to connect to the application circuit, and one device-specific personality daughter board.

These interchangeable personality modules or daughter boards are contained with the mother board within one housing, connecting to the target application via a connector cable that extends from the housing. The mother board incorporates the common emulation logic while the daughter board is for device-specific emulator logic. This economical system allows the user to purchase a new daughter board for a new processor group as needed, at approximately 30% of the full system cost.

ICEPIC was designed by NEOSOFT Inc. and is manufactured under license by RF Solutions Ltd. To order or obtain more information about ICEPIC or any other Microchip product, contact the Microchip sales office nearest you.

Customer Support:

Microchip maintains a worldwide network of distributors, representatives, local sales offices, Field Application Engineers and Corporate Application Engineers as well as a multifaceted Bulletin Board System. Microchip's Internet home page can be reached at: http://www.microchip.com

Development Tools from Microchip	
MPLAB™	Integrated Development Environment (IDE)
MPASM	Universal PIC16/17 macro-assembler
MPLAB-C	C compiler for PIC16/17 microcontrollers*
PICMASTER®	Full-featured modular in-circuit emulator
ICEPIC	Low-cost modular in-circuit emulator
PRO MATE™ II	Full-featured, modular device programmer
PICSTART® Plus	Entry-level development kit with programmer
PICSTART® Lite	Low-cost entry level development kit
*fuzzy*TECH®-MP	Fuzzy Logic development software
MP-DriveWay™	Application Code Generator*
*Product release: June 1996	

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Microchip Technology Inc. • 2355 W. Chandler Blvd. • Chandler, AZ 85224-6199 • (602) 786-7200 • Fax (602) 899-9210

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