

- Assembly and C source level debugging
- Program memory emulation and memory mapping capability up to 64K words
- Real-Time trace with up to 32K deep by 128 bit wide buffer
- Trigger/break/trace on internal registers/RAM
- Complex breakpoints with advanced trigger features, including sequential events, AND/OR events, filtered trace, time between events and pass counts
- External trigger input and output for logic analyzer/scope interface
- Time-stamp trace feature
- Code coverage
- Supports all PICmicro package types

The modular system consists of:

- Emulator Pod
- Processor Module
- Device Adaptor
- Translation Socket

Supplied with a universal power supply. UK (240Vac) power supply, 9V, 500mA - **110-899**. IEC (110-240Vac) power supply, 9V, 900mA - **110-711**. UK mains plug lead **439-319**. European mains plug lead **210-699**.

SEM693

		Order Code	Price Each
ICE2000	MPLAB-ICE 2000 Universal Emulator Pod.....	<b>121-393</b>	
PCM12XAO	Processor module for 12C671/672, CE673/674 ..	<b>121-411</b>	
PCM14XAO	Processor module for 14000 series.....	<b>121-423</b> †	
PCM16XAO	Processor module for 12C50x, 12CE51x, 16C505/52/54A/54B/55/56/56A/57/58A/58B ...	<b>121-435</b>	
PCM16XB1	Processor module for 16C62A/63/64A/65A, 72/73A/74A.....	<b>326-6825</b>	
PCM16XCO	Processor module for 16C554/558/620/620A/621/621A/622/622A/CE623/CE624/CE625 .....	<b>121-459</b>	
PCM16XDO	Processor module for 16C642/662.....	<b>121-460</b>	
PCM16XE1	Processor module for 16C63A/65B/66/67/72A/73B/74B/77 .....	<b>330-5855</b>	
PCM16XFO	Processor module for 16C71/710/711 .....	<b>121-484</b>	
PCM16XGO	Processor module for 16C715.....	<b>121-496</b>	
PCM16XHO	Processor module for 16F83/84.....	<b>121-502</b>	
PCM16XJO	Processor module for 16C923/924.....	<b>121-514</b>	
PCM16XKO	Processor module for 16F873/874/876/877 .....	<b>330-5776</b>	
PCM16XNO	Processor module for 16F717/770/771 .....	<b>NEW 352-9058</b>	
PCM16XPO	Processor module for 16F627/628 .....	<b>NEW 352-9060</b>	
PCM16XQO	Processor module for 16F745/765 .....	<b>NEW 352-9071</b>	
PCM16XRO	Processor module for 16F870/871 .....	<b>NEW 352-9083</b>	
PCM17XAO	Processor module for 17C42A/43/44/752/756/756A/76x .....	<b>121-526</b>	
PCM18XAO	Processor module for 18C242/442/252/452 .....	<b>334-8570</b>	
DVA12XP080	Device Adapter for 8-pin 12C50x, CE51x PDIP and SOIC (207 mil) .....	<b>121-538</b>	
DVA12XP081	Device Adapter for 8-pin 12C671/672, CE673/674 PDIP and SOIC (207 mil) .....	<b>121-540</b>	
DVA14XP280	Device Adapter for 28-pin 14000 SDIP, SOIC and SSOP.....	<b>121-551</b> †	
DVA16XP140	Device Adapter for 14-pin 16C505 PDIP and SOIC (150 mil) .....	<b>121-563</b>	
DVA16XP180	Device Adapter for 18/20-pin 16C52/54/54A/54B/56/56A/58A/554/558/620/620A/621/621A/622/622A/CE623/CE624/CE625/71/710/711/715/F83/F84 PDIP, SOIC and SSOP .....	<b>121-575</b>	
DVA16XP183	Device Adapter for 18-pin 16F627/628 PDIP, SOIC and SSOP .....	<b>NEW 352-9022</b>	
DVA16XP184	Device Adapter for 18-pin 16C717 PDIP .....	<b>NEW 352-9034</b>	
DVA16XP200	Device Adapter for 20-pin 16C717/770/771 PDIP, SOIC and SSOP .....	<b>NEW 352-9046</b>	
DVA16XP280	Device Adapter for 28-pin 16C55/57 PDIP, SOIC and SSOP.....	<b>121-587</b>	
DVA16XP281	Device Adapter for 28-pin 16C62A/63/642/66/72/72A/73A/76 PDIP, SOIC and SSOP .....	<b>121-599</b>	
DVA16XP282	Device Adapter for 28-pin 18C242/252 DIP, SOIC .....	<b>334-8581</b>	
DVA16XP400	Device Adapter for 40-pin 16C65A/67/662/74A/77 PDIP .....	<b>121-605</b>	
DVA16XL440	Device Adapter for 44-pin 16C65A/67/662/74A/77 PLCC.....	<b>121-617</b>	
DVA16XP640	Device Adapter for 64-pin 16C923/924 SDIP .....	<b>121-629</b>	
DVA16XL680*	Device Adapter for 68-pin 16C923/924 PLCC.....	<b>121-630</b>	
DVA17XP400	Device Adapter for 40-pin 17C42A/43/44 PDIP .....	<b>121-642</b>	
DVA16XP401	Device Adapter for 40-pin PIC16C64A/65A/65B/67/662/74A/74B/77/77A/874/877/PIC18Cxx2 .....	<b>NEW 348-1311</b>	
DVA17XL440	Device Adapter for 44-pin 17C42A/43/44 PLCC .....	<b>121-654</b>	
DVA17XL680	Device Adapter for 68-pin 17C752/756/756A PLCC .....	<b>121-666</b>	
DVA17XL840	Device Adapter for 84-pin 17C62/766 PLCC.....	<b>121-678</b>	
XLT08SO	8-pin SOIC (207 mil) Transition Socket .....	<b>121-691</b>	
XLT14SO	14-pin SOIC (150 mil) Transition Socket .....	<b>121-708</b>	
XLT18SO	18-pin SOIC (300 mil) Transition Socket .....	<b>121-710</b>	
XLT28SO	28-pin SOIC (300 mil) Transition Socket .....	<b>119-921</b>	
XLT20S01	20-pin SOIC (300mil) Transition Socket .....	<b>NEW 352-9095</b>	
XLT20SS	20-pin SSOP Transition Socket.....	<b>119-933</b>	
XLT20SS1	20-pin SSOP (300mil) Transition Socket .....	<b>NEW 352-9101</b>	
XLT28SS	28-pin SSOP (300 mil) Transition Socket.....	<b>119-945</b>	

\* Transition plug not required for this item

† Available until stocks are exhausted

## ICEPIC/ICEPIC2 – In-Circuit Emulator (with trace facility)



Developed by ex-Microchip system designers, under contract from Microchip, the ICEPIC and ICEPIC2 offer the best value for money In-Circuit Emulators for the PIC microcontroller on the market.

Features: ICEPIC & ICEPIC2

- Full speed, real time emulation to 10/20MHz
- Single, multiple and procedure step
- Microchip emulation chip inside
- Source level debug in Assembler or 'C'
- Unlimited number of break points
- Display and modify any register (program or data)
- Same interface for all PIC16C5X/16CXX
- User selectable processor speeds (via oscillator module)
- Runs under Microsoft Windows 3.X, Win95/98/NT
- Runs with 'MPLAB' IDE
- High speed RS232 interface (57.6Kbps)
- Simple to use toolbar
- Display and work in HEX/DEC/BIN
- Fully compatible with Microchip's software tools
- Full context sensitive help

Additional features: ICEPIC2

- Real-time trace
- Trigger output
- PIC17C emulation upgrade

The ICEPIC and ICEPIC2 are supplied as a system with Power Supply, RS232 cable, software (including WinMPASM assembler) and full supporting documentation.

Each daughter board may be used in conjunction with either ICEPIC or ICEPIC2 (17C4X = ICEPIC2 only) for emulation of the various PIC families as listed. Daughter boards are fully interchangeable and are supplied with the relevant probe header cable with DIP header to plug into the target application circuit board. 790-436 and 790-448 require the user's choice of daughter board.

A demo disk and user manual set is available for in-depth evaluation of what the ICEPIC has to offer.

See Accessories below for power supply options.

SEM252

		Order Code	Price Each
ICEPIC	Emulator, without daughter board, for all PIC16 Families .....	<b>790-436</b>	
ICEPIC2	Emulator (includes trace facility), without daughter board, for all PIC16/PIC17 Families.....	<b>790-448</b>	
ICEPIC-DB5XA	Daughter Board for 12C508/509, 16C5X/16C505 Families.....	<b>630-731</b>	
ICEPIC-DBA12C	Daughter Board for PIC12C50X Families.....	<b>790-229</b> †	
ICEPIC-DB12C67X	Daughter Board for PIC12C671, 672 Families.....	<b>329-6891</b>	
ICEPIC-DB74A	Daughter Board for PIC16C6X/7X Families.....	<b>630-755</b>	
ICEPIC-DB77	Daughter Board for PIC16C66/67/76/7 Families.....	<b>110-577</b>	
ICEPIC-DB711	Daughter Board for PIC16C71/71X Families .....	<b>630-809</b>	
ICEPIC-DB715	Daughter Board for PIC16C715 Family.....	<b>110-565</b>	
ICEPIC-DB84A	Daughter Board for PIC16X8X Families .....	<b>630-810</b>	
ICEPIC-DB55X	Daughter Board for PIC16C55X Families.....	<b>790-205</b>	
ICEPIC-DB62X	Daughter Board for PIC16C62X Families .....	<b>630-822</b>	
ICEPIC-DB756	Daughter Board for PIC17C756 Family .....	<b>111-582</b>	
ICEPIC-DB87X	Daughter Board for PIC16F872, 873, 874, 876, 877 Families.....	<b>329-6880</b>	
ICEPIC-DB92X*	Daughter Board for PIC16C92X Families.....	<b>790-217</b>	
ICEPIC2-DB17C	Daughter Board for PIC17C4X Families (for use with ICEPIC2 only).....	<b>790-450</b> †	
PROG-MOD	Programmable Oscillator Module, replaces ICEPIC-OSC.....	<b>110-693</b>	
	Demo Disk/User Manual.....	<b>573-450</b>	

† Available until stocks are exhausted

Note: The ICEPIC-DBA12C adaptor board is used in conjunction with the ICEPIC-DB5X daughter board as a sub-assembly adapting an 18-pin socket to an 8-pin.

\* Includes 68 Pin PLCC Plug

Continued