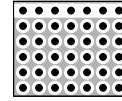




## ISA Printed Circuit Prototyping Board



Circuit Pattern



Power/Ground Perimeter Bus with Pad Per Hole



Printed circuit prototyping boards for virtually any application including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold

Part No.	Cross Ref. No.	Description	Size (Inches) W x L	Terminals (pg 297)			I/O Connector (not included)	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing		
				T44	T49	T421							1	10	25
28206	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4" x .120"	0.23	\$30.19	\$27.16	\$24.47

## SchmartBOARD Prototyping Boards

The only prototyping system that allows one to work on one circuit block at a time, test the blocks individually, and then connect the blocks together. This is why the system is called "Electronic Circuit Building Blocks."



1537580      1537723      1537635      1537660      1537686

### Thru Hole Boards

Part No.	Product No.	Description	Price
1537580	201-0001-01	0.1" center spacing w/ 0.5" offset, 12 ground holes	\$5.49

### Discrete Surface Mount Boards

1537715	202-0034-01	0201/0603/0805/1206/1210/1608/1812/ 2010/2512 discrete SMT in case size A/B/C	\$10.99
1537723	202-0035-01	SOT23-3/5/6/SC70-5/6/DPAK/D2PAK/SOT223/T0263-7/ SOT89/0805/1206 discrete in case size A/B/C/D/E	10.99

### SO/SOP Boards

1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	\$10.99
1537643	202-0007-01	Up to 72-pin SO/SOP/QSOP/SSOP/TSSOP/PSSOP w/ 0.5mm pitch, 0603 & 0805 discrete, 6 ground holes	10.99

### QFP Boards

1537651	202-0009-02	Up to 64 pins QFP, TQFP, PQFP w/ 0.8mm pitch & 0603 discrete, 22 ground holes	\$10.99
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch & 0603 discrete, 6 ground holes	10.99

### CHIPSCALE (QFN) Boards

1537678	202-0016-01	Supports 12-24 pins w/ 0.5mm & 0.65mm pitch	\$10.99
1537686	202-0017-01	Supports 10 & 32 pin w/ 0.5mm pitch	10.99
1537694	202-0018-01	Supports 8 & 48 pin w/ 0.5mm pitch	10.99
1537707	202-0020-01	Supports 64 pin w/ 0.5mm pitch	10.99

### Thru Hole I/O and Power Board

1537598	201-0100-01	Power & ground strip	\$2.75
1537601	201-0104-01	DB-25 connector	2.75
1537619	201-0105-01	JTAG 20-pin w/ 0.1" spacing & IEEE 1394	2.75
1537627	201-0106-01	RGB HD-DB15, 4 ground holes	2.75
1537803	201-0101-01	Drive power conn. & power jack, 12 ground holes	2.75
1537811	201-0102-01	ATX power connector, 10 ground holes	2.75
1537820	201-0108-01	RJ11 or RJ45 & one USB-B conn., 8 ground holes	2.75

### Accessories

1537740	920-0005-01	10 pcs. 22AWG 3" jumper wires & 20-pin headers	\$5.49
1537758	920-0006-01	10 pcs. 22AWG 5" jumper wires & 20-pin headers	5.49
1537766	920-0007-01	10 pcs. 22AWG 7" jumper wires & 20-pin headers	5.49
1537774	920-0008-01	100 pcs. 22AWG 3" jumper wires	41.89
1537782	920-0009-01	100 pcs. 22AWG 5" jumper wires	41.89
1537791	920-0010-01	100 pcs. 22AWG 7" jumper wires	41.89

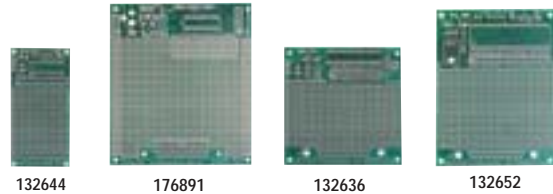
**SCHMART MODULE** Operates on a single 5V power source, ESD protected in excess of 15KV on all I/O lines, 4 LED's (2TRX & 2RCX), pre-installed headers for transceiver lines, +5V, & ground.

Part No.	Product No.	Price
1537731	710-0001-01	\$16.55

## microEngineering Labs "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
  - Large prototyping area
- Solder mask on both sides makes soldering easy
  - Silkscreen legend

**Includes:** Documentation sheet with schematic, suggested parts and placement



132644      176891      132636      132652

**PICProto 18, 18L:** For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891	PICProto 18L	3.6 x 4.1	19.95	17.95

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
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**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
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## microEngineering Labs

### PICBasic and PICBasic Pro Compiler

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

#### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Serial speeds to 9600 baud
- May use up to 2k of code space
- Interrupts in BASIC and assembler
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- PEEK and POKE instructions to access any register from BASIC



132661

#### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
  - Bit, byte, word arrays
  - Hierarchical expression handling
- Real If...Then...Else...Endif
  - BASIC Stamp I and II library
- Built-in LCD support
  - MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661	PICBasic compiler	\$99.95	\$89.95
150543	PICBasic Pro compiler	249.95	224.95

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