

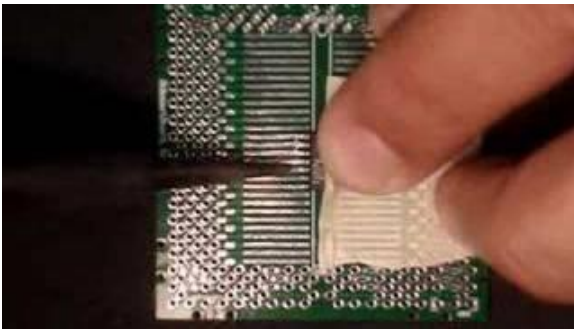
# Schmartboard Product Catalog



January 2017

## Schmartboard Instructional Videos

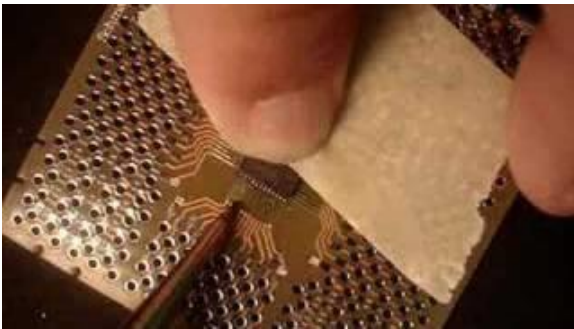
Although we make soldering easy, You may want to watch our videos before soldering your first board. They are short and direct to the point. Here are a few.



**Hand Soldering an SOIC Part**



**Hand Soldering a .5mm QFP Chip**



**Hand Soldering .5mm QFN**



**SMT Connector Prototyping**



**Pick Your PIC**



**QFP & QFN to DIP for Breadboarding**

**Just go to YouTube and search for Schmartboard**

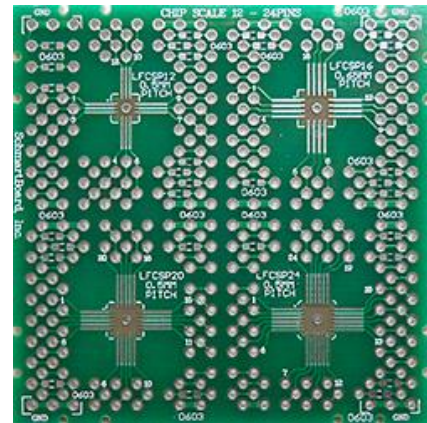
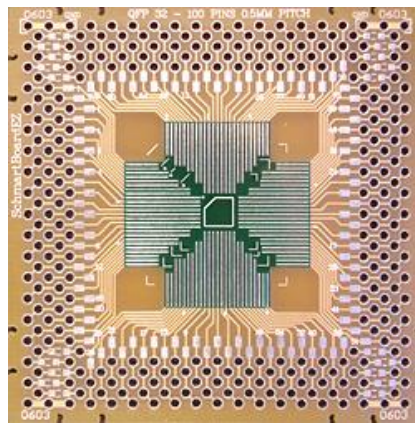
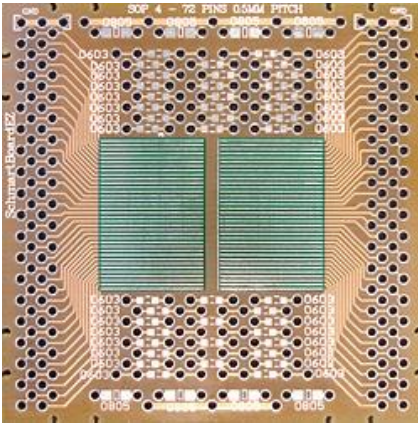
# Through Hole Boards



Product Number	Description	Price
201-0001-01	Through Hole 0.1" Spacing With 0.05" Offset, 2" X 2" Grid	\$5.00
201-0002-01	Through Hole 2mm Spacing With 1mm Offset	\$5.00
201-0302-01	Through Hole 0.1" Spacing With 0.05" Offset, 4" X 4" Grid	\$15.00
201-0013-01	Schmartboard Universal Through Hole and Surface Mount Board	\$3.50
201-0100-01	Through Hole Power And Ground Strip 0.5" X 2" Grid	\$2.50
201-0101-01	Through Hole Drive Power Conn And Power Jack 0.5" X 2" Grid	\$2.50
201-0102-01	Through Hole ATX Power Connector 0.5" X 2" Grid	\$2.50
201-0103-01	Through Hole Audio/RCA Jack 0.5" X 2" Grid	\$2.50
201-0104-01	Through Hole DB 25 Connector 0.5" X 2" Grid	\$2.50
201-0105-01	Through Hole JTAG 20 Pins 0.1" SP And IEEE1394 Connector 0.5" X 2" Grid	\$2.50
201-0106-01	Through Hole RGB 15 Pins Connector 0.5" X 2" Grid	\$2.50
201-0107-01	Through Hole Switches T.H. 0.5" X 2" Grid	\$2.50
201-0108-01	Through Hole RJ11/45 AND USB Connector 0.5" X 2" Grid	\$2.50
201-0110-01	Through Hole USB Mini B Connector 0.5" X 2" Grid	\$2.50
201-0015-01	400 Tie Point Schmartboard Bread/Proto	\$5.50
201-0015-31	400 Tie Point Schmartboard Bread/Proto Board Bundles with a 830 Point Breadboard	\$10.00
201-0016-01	830 Tie Point Schmartboard Bread/Proto	\$7.95
201-0016-31	830 Tie Point Schmartboard Bread/Proto Board Bundles with a 830 Point Breadboard	\$15.00
	2" x 2" 10 Packs	\$40.00
	0.5" X 2" 10 Packs	\$20.00
	4" x 4" 10 Packs	\$120.00

Schmartboard through hole boards are not your typical boards. We have two types, function specific such as USB, RGB and others or our general through hole boards. Our general boards have our signature offset grids which makes better use of the space on our boards and give you more flexibility. Our boards also have a ground plane and pre-routed traces to reduce the need for jumpers.

# Surface Mount Boards



Product Number	Description	Price
202-0004-01	SO, 4 – 56 Pins, 1.27mm pitch, 2" X 2" Grid EZ Version	\$9.99
202-0005-01	SOP, 4 – 72 Pins 0.8mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0006-01	SOP, 4 – 72 Pins 0.65mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0007-01	SOP, 4 – 72 Pins 0.5mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0008-01	SOP, 4 – 72 Pins 0.4mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0009-02	QFP, 32 – 64 Pins 0.8mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0010-02	QFP, 36-100 Pins 0.65mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0011-01	QFP, 32 – 100 Pins 0.5mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0012-01	PLCC, 20 – 84 Pins 0.05" Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0013-01	SOP, 4 – 72 Pins 0.635mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0014-01	QFP 64-100 Pins, 0.4mm Pitch, 2" X 2" Grid EZ Version	\$9.99
202-0016-01	QFN SchmartBoard ez 12 Pins to 24 Pins .5mm & .65mm	\$9.99
202-0017-01	QFN SchmartBoard ez 10 Pins and 32 pins, .5mm Pitch	\$9.99
202-0018-01	QFN SchmartBoard ez 8 and 48 pin 0.5mm Pitch	\$9.99
202-0019-01	QFN SchmartBoard ez 56 Pins, 0.5mm Pitch	\$9.99
202-0020-01	QFN SchmartBoard ez 64 Pins, 0.5mm Pitch	\$9.99
202-0030-01	QFP, 120 – 144 Pins 0.8mm Pitch, 4" X 4" Grid EZ Version	\$20.00
202-0031-01	QFP, 112 – 160 Pins 0.65mm Pitch, 4" X 4" Grid EZ Version	\$20.00
202-0032-01	QFP, 128 – 240 Pins 0.5mm Pitch, 4" X 4" Grid EZ Version	\$20.00
202-0034-01	EZ Discrete #1 Supports 0201, 0603, 0805, 1206, etc.	\$9.99
202-0035-01	EZ Discrete #2 Supports SOT23-3, 5, 6, SC70-5, etc.	\$9.99
202-0042-01	QFN 5mm – 16 and 28 Leads, .65 mm – 20 Leads, .8 mm 12 and 16 Leads	\$9.99
202-0043-01	QFN SchmartBoard ez 36 Pins .5mm & 32 Pins .65mm	\$9.99
202-0044-01	QFN SchmartBoard ez 40 Pins, 0.5mm Pitch	\$9.99
202-0048-01	QFN SchmartBoard ez 88 Pins, 0.4mm Pitch	\$9.99
	2" x 2" 10 Packs	\$80.00
	4" x 4" 5 Packs	\$80.00

Only Schmartboard has our patented technology for making hand soldering surface mount components fast, easy and flawless. Whether you are using an SOIC, QFP or even QFN/DFN with pitches as small as .4mm, Schmartboard is the only company with a solution that makes these parts workable for your prototype or project without the need for custom assembly costs.

# SMT to DIP Adapters

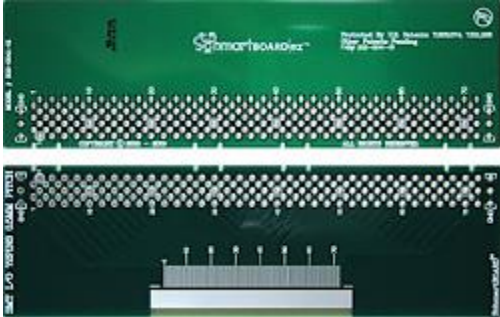


Product Number	Description	Price
204-0003-01	SchmartBoard   ez SOT 23 & SC70 SMT to DIP Adapter	\$6.00
204-0004-01	SchmartBoard   ez 1.27mm Pitch SOIC to DIP adapter	\$6.00
204-0006-01	SchmartBoard   ez .65mm Pitch SOIC to DIP adapter	\$6.00
204-0007-01	SchmartBoard   ez .5mm Pitch SOIC to DIP adapter	\$6.00
204-0013-01	SchmartBoard   ez .635mm Pitch SOIC to DIP adapter	\$6.00
204-0014-01	SchmartBoard   ez .5mm Pitch, 48 Pin QFP & QFN Adapter	\$6.00
204-0015-01	SchmartBoard   ez .5mm Pitch, 12 and 24 Pin QFP & QFN Adapter	\$6.00
204-0016-01	SchmartBoard   ez .5mm Pitch, 16 and 20 Pin QFP & QFN Adapter	\$6.00
204-0017-01	SchmartBoard   ez .5mm Pitch, 32 Pin QFP & QFN Adapter	\$6.00
204-0018-01	SchmartBoard   ez .5mm Pitch, 64 Pin QFP & QFN Adapter	\$7.00
204-0019-01	SchmartBoard   ez .5mm Pitch, 56 Pin QFP & QFN Adapter	\$6.00
204-0021-01	SchmartBoard   ez 0.5mm Pitch 8 Pin DFN to DIP adapter	\$6.00
204-0022-01	SchmartBoard   ez 0.5mm Pitch 10 Pin DFN to DIP adapter	\$6.00
204-0023-01	SchmartBoard   ez .5mm Pitch, 12 Pin DFN Adapter	\$6.00
204-0025-01	SchmartBoard   ez .5mm Pitch, 28 Pin QFP & QFN Adapter	\$6.00
204-0026-01	SchmartBoard   ez .5mm Pitch, 16 Pin QFP & QFN Adapter	\$6.00
204-0027-01	Schmartboard   ez .65mm Pitch, 16 Pin QFP & QFN Adapter	\$6.00
204-0028-01	Schmartboard   ez .5mm Pitch, 12 Pin DFN to DIP Adapter	\$6.00
204-0029-01	Schmartboard   ez .5mm Pitch, 16 Pin DFN to DIP Adapter	\$6.00
204-0044-01	SchmartBoard   ez 0.5mm Pitch 40 Pin QFP/QFN to DIP adapter	\$6.00
204-0045-01	SchmartBoard   ez 0.5mm Pitch 44 Pin QFP/QFN to DIP adapter	\$6.00
	SMT to DIP 10 Packs	\$48.00
	Quantity 2 SMT to DIP Adapters With a Free Breadboard	\$15.00

Breadboarders Arise! Today, your shackles are released as you no longer have to search for that elusive DIP version of components. Rise above your peers and use the IC of your choice. Create a breadboard circuit with an accelerometer in a QFN package, a microprocessor in a 64 pin QFP package or a sensor with a .5mm pitch. If you can dream it, you can build it, because Schmartboard and only Schmartboard has opened up the most current chip technology to you, the maligned and often forgotten breadboarder. Rejoice my friends...your day has come. Only Schmartboard has our patented technology for making hand soldering surface mount components fast, easy and flawless. Whether you are using an SOIC, QFP or even QFN/DFN with pitches

as small as .4mm, Schmartboard is the only company with a solution that makes these parts workable for your prototype or project without the need for custom assembly costs.

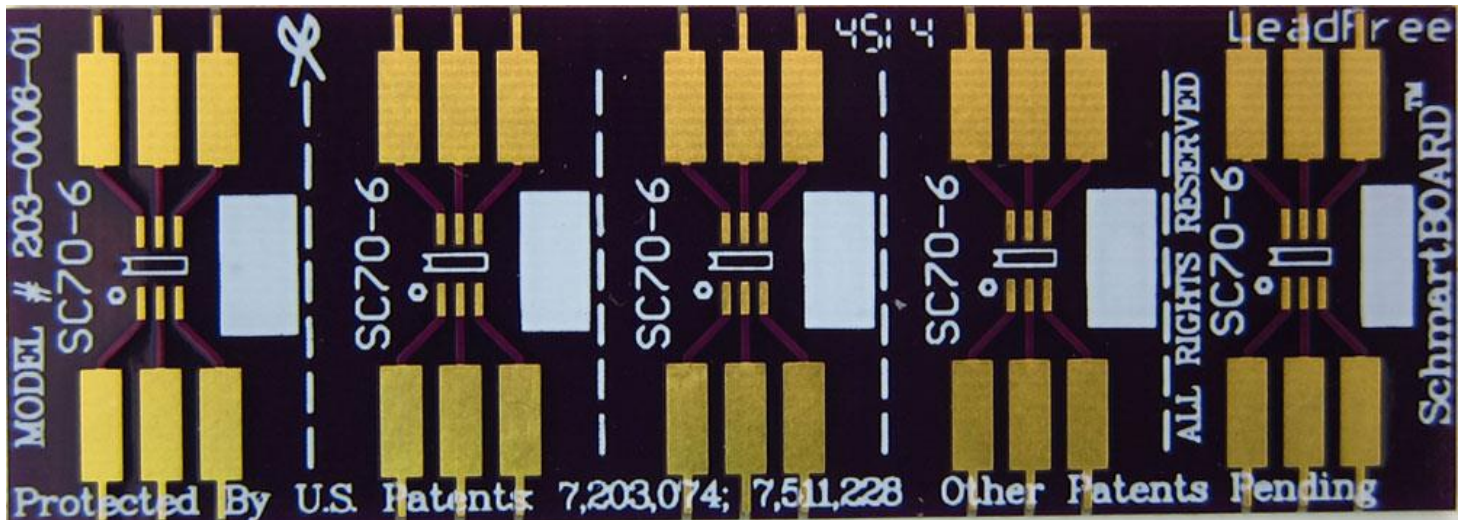
# Surface Mount Micro-Connector Boards



Product Number	Description	Price
202-0038-01	1.25mm Pitch SMT Connector Board	\$10.00
202-0039-01	1.0mm Pitch SMT Connector Board	\$10.00
202-0040-01	0.8mm Pitch SMT Connector Board	\$10.00
202-0041-01	0.5mm Pitch SMT Connector Board	\$10.00
202-0047-01	0.4mm Pitch SMT Connector Board	\$10.00
	10 Packs	\$80.00

You've received your microconnector sample..now what do you do with it? Schmartboard allows you to solder it onto a board and start using it in minutes. Only Schmartboard has our patented technology for making hand soldering surface mount components fast, easy and flawless. We support microconnectors with pitches as fine as .4mm. The pads have pre-routed traces for easy access to each signal.

# SchmartPatch

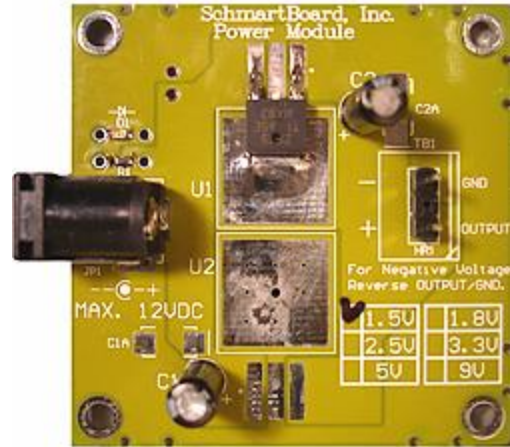
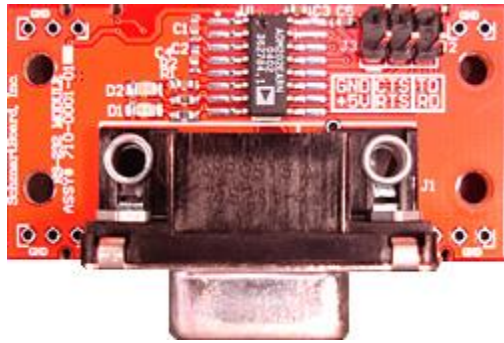


Product Number	Description	Price
203-0001-01	4 Pack of SchmartPatch for 0603, 0805, SOD123, SOD323 and SOD523	\$15.00
203-0002-01	4 Pack of SchmartPatch for 1008, 1206, CASE-A and SOD80	\$15.00
203-0003-01	4 Pack of SchmartPatch for SOT23-6	\$15.00
203-0004-01	4 Pack of SchmartPatch for 1210, 1608, 2010, 2512 and CASE-B/C/D/E	\$15.00
203-0005-01	4 Pack of SchmartPatch for SOIC-8	\$15.00
203-0006-01	4 Pack of SchmartPatch for SC70-6	\$15.00

Need to replace a part on a circuit board? How about add a component? SchmartPatch allows you to add components to or replace components on any substrate such as a PCB(Printed Circuit Board). This SchmartPatch board allows you to cut off a pad, stick it on to the surface (with the adhesive already on the back of the SchmartPatch) and then solder a component onto the SchmartPatch. There are also pads to solder jumper wires to make the electrical connection.



# Populated I/O Modules



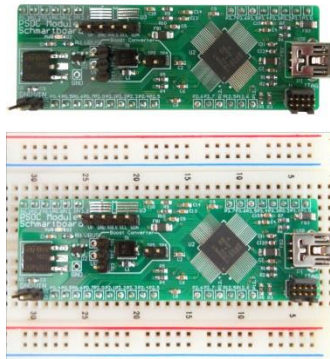
Product Number	Description	Price
710-0001-01	RS-232 Module populated with Analog Devices ADM202E chipset	\$15.00
710-0003-01	1.5 Volt Populated Single Voltage Regulated Power Module	\$10.00
710-0003-02	1.8 Volt Populated Single Voltage Regulated Power Module	\$10.00
710-0003-03	2.5 Volt Populated Single Voltage Regulated Power Module	\$10.00
710-0003-04	3.3 Volt Populated Single Voltage Regulated Power Module	\$10.00
710-0003-05	5 Volt Populated Single Voltage Regulated Power Module	\$10.00
710-0003-06	9 Volt Populated Single Voltage Regulated Power Module	\$10.00

Why reinvent the wheel. Your objective is to get your circuit up and running. Schmartboard makes these modules with that in mind. With such a low cost it is the quickest and most sensible way to get things up and running. Time is money.





# Microcontroller Development Boards



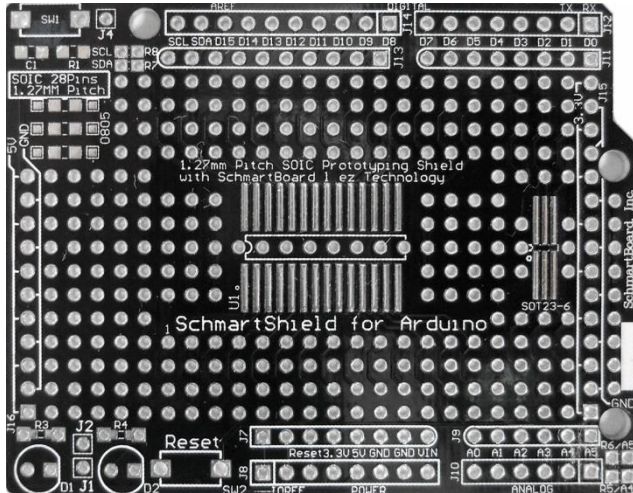
Product Number	Description	Price
710-0004-01	8 Bit PIC® Microcontroller Development SchmartModule A	\$15.00
710-0005-01	Parallax Propeller SchmartModule-Without Propeller Chip	\$15.00
710-0005-02	Parallax Propeller SchmartModule- With Propeller Chip	\$23.00
710-0006-01	Texas Instruments Development Board	\$30.00
710-0008-01	Cypress PsoC 3 and 5LP Development Board (Without PsoC Populated)	\$25.00
710-0008-05	Cypress PsoC 5LP Development Board( with Boot loaded PsoC 5LP IC)	\$35.00
710-0009-01	Texas Instruments MSP430F5172 Development SchmartModule (Without TI MSP430F5172)	\$28.00
710-0009-02	Texas Instruments MSP430F5172 Development SchmartModule	\$35.00
710-0011-01	Schmartboard OpAmp Board	\$18.00
710-0012-01	Schmartboard RLC Divider Board	\$10.00
710-0013-01	Schmartboard Active Filter Board	\$18.00
710-0014-01	Schmartboard Level Shifter Board	\$10.00

Schmartboard has worked in partnership with semiconductor companies to create these development boards. Not only are they priced aggressively but they are uniquely flexible in ways not heard of before. Take our 8 Bit PIC development board as an example. It supports 116 different PIC Microcontrollers. You solder the PIC IC of your choice onto the board using our EZ solder technology.

The Cypress PsoC board comes fully populated with a bootloaded PsoC5. This means you don't even need a programmer...just plug it in a go! More boards are on the way!



# Arduino Shields



Product Number	Description	Price
206-0002-01	Through Hole Prototyping Shield for Arduino Uno (Board Only)	\$10.00
206-0002-02	Through Hole Prototyping Shield for Arduino Uno with Components and Free Breadboard	\$15.00
206-0002-03	SOT 23 & SC70 Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-04	1.27mm Pitch SOIC Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-06	0.65mm Pitch SOIC Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-07	0.5mm Pitch SOIC Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-13	0.635mm Pitch SOIC Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-15	0.5mm Pitch, 12 and 24 Pin QFP & QFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-16	0.5mm Pitch, 16 and 20 Pin QFP & QFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-17	0.5mm Pitch, 32 Pin QFP & QFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-21	0.5mm Pitch 8 Pin DFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-22	0.5mm Pitch 10 Pin DFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-27	.65mm Pitch, 16 Pin QFP & QFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-28	.5mm Pitch, 12 Pin DFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-29	.5mm Pitch, 16 Pin DFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0002-44	0.5mm Pitch 40 Pin QFP/QFN Surface Mount Arduino Uno Shield Kit	\$18.00
206-0004-02	1.27mm Pitch SOIC Prototyping shield for Arduino (With Components)	\$15.00
206-0006-02	0.65mm Pitch SOIC Prototyping shield for Arduino (With Components)	\$15.00
206-0007-02	0.5mm Pitch SOIC Prototyping shield for Arduino (With Components)	\$15.00
206-0001-01	Through Hole Prototyping Shield for Arduino Mega (Board Only)	\$13.00
206-0001-02	Through Hole Shield for Arduino Mega with Components and Free Breadboard	\$18.00
206-0001-03	SchmartBoard   ez SOT 23 & SC70 Arduino Mega Shield Kit	\$21.00
206-0001-04	SchmartBoard   ez 1.27mm Pitch SOIC Arduino Mega Shield Kit	\$21.00
206-0001-06	SchmartBoard   ez 0.65mm Pitch SOIC Arduino Mega Shield Kit	\$21.00

206-0001-07	SchmartBoard   ez 0.5mm Pitch SOIC Arduino Mega Shield Kit	\$21.00
206-0001-13	SchmartBoard   ez 0.635mm Pitch SOIC Arduino Mega Shield Kit	\$21.00
206-0001-14	SchmartBoard   ez .5mm Pitch, 48 Pin QFP/ QFN Arduino Mega Shield Kit	\$21.00
206-0001-15	SchmartBoard   ez .5mm Pitch, 12 & 24 Pin QFP/QFN Arduino Mega	\$21.00
206-0001-16	SchmartBoard   ez 0.5mm Pitch, 16 and 20 Pin QFP & QFN Arduino Mega	\$21.00
206-0001-17	SchmartBoard   ez 0.5mm Pitch, 32 Pin QFP & QFN Arduino Mega Shield	\$21.00
206-0001-18	SchmartBoard   ez 0.5mm Pitch 64 Pin QFN Arduino Mega Shield Kit	\$22.00
206-0001-19	SchmartBoard   ez 0.5mm Pitch 56 Pin QFN Arduino Mega Shield Kit	\$21.00
206-0001-21	SchmartBoard   ez 0.5mm Pitch 8 Pin DFN Arduino Mega Shield Kit	\$21.00
206-0001-22	SchmartBoard   ez 0.5mm Pitch 10 Pin DFN Arduino Mega Shield Kit	\$21.00
206-0001-27	Schmartboard   ez .65mm Pitch, 16 Pin QFP & QFN Arduino Mega Shield Kit	\$21.00
206-0001-28	Schmartboard   ez .5mm Pitch, 12 Pin DFN Arduino Mega Shield Kit	\$21.00
206-0001-28	Schmartboard   ez .5mm Pitch, 16 Pin DFN Arduino Mega Shield Kit	\$21.00
206-0001-44	SchmartBoard   ez 0.5mm Pitch 40 Pin QFP/QFN Arduino Mega Shield Kit	\$21.00
206-0001-45	SchmartBoard   ez .5mm Pitch 44 Pin QFP & QFN Arduino Mega Shield Kit	\$21.00

Not all Arduino users design their own shields, but if you do, you certainly want to be able to use surface mount parts. Our through hole Arduino shields have our signature offset grids which makes better use of the space on our boards and give you more flexibility. Our boards also have a ground plane and pre-routed traces to reduce the need for jumpers. We then bundle our SMT to DIP adapters with the Arduino boards to make SOIC, QFP, QFN/DFN part of your workable solution. Schmartboard is the only Arduino solution for the real designers who do not want any limitations in their Arduino projects.





# Raspberry Pi

Product Number	Description	Price
710-0010-02	Raspberry Pi Prototyping Shield With Header and Breadboard	\$13.00
710-0010-03	SchmartBoard   ez SOT 23 & SC70 Raspberry Pi Add-on Board	\$18.00
710-0010-04	SchmartBoard   ez 1.27mm Pitch SOIC Raspberry Pi Add-on Board	\$18.00
710-0010-06	SchmartBoard   ez .65mm Pitch SOIC Raspberry Pi Add-on Board	\$18.00
710-0010-07	SchmartBoard   ez .5mm Pitch SOIC Raspberry Pi Add-on Board	\$18.00
710-0010-13	SchmartBoard   ez .635mm Pitch SOIC Raspberry Pi Add-on Board	\$18.00
710-0010-15	SchmartBoard   ez .5mm Pitch, 12 & 24 Pin QFP/QFN Raspberry Pi Add-on Board	\$18.00
710-0010-16	SchmartBoard   ez .5mm Pitch, 16 & 20 Pin QFP/QFN Raspberry Pi Add-on Board	\$18.00
710-0010-17	SchmartBoard   ez .5mm Pitch, 32 Pin QFP/QFN Raspberry Pi Add-on Board	\$18.00
710-0010-21	SchmartBoard   ez 0.5mm Pitch 8 Pin DFN Raspberry Pi Add-on Board	\$18.00
710-0010-22	SchmartBoard   ez 0.5mm Pitch 10 Pin DFN Raspberry Pi Add-on Board	\$18.00
710-0010-27	Schmartboard   ez .65mm Pitch, 16 Pin QFP & QFN Raspberry Add-on Board	\$18.00
710-0010-28	Schmartboard   ez .5mm Pitch, 12 Pin DFN Raspberry Pi Add-on Board	\$18.00
710-0010-29	Schmartboard   ez .5mm Pitch, 16 Pin DFN Raspberry Pi Add-on Board	\$18.00
710-0010-44	SchmartBoard   ez 0.5mm Pitch 40 Pin QFP/QFN Raspberry Pi Add-on Board	\$18.00
710-0010-45	SchmartBoard   ez 0.5mm Pitch 44 Pin QFP/QFN Raspberry Pi Add-on Board	\$18.00

Not all Raspberry Pi users design their own add-on boards, but if you do, you certainly want to be able to use surface mount parts. Our through hole Raspberry Pi Add-on boards have our signature offset grids and many other feature which make better use of the space on our board and give you more flexibility. Our board also has a ground plane and pre-routed traces to reduce the need for jumpers. We then bundle our SMT to DIP adapters with the Raspberry Pi board to make SOIC, QFP, QFN/DFN part of your workable solution. You design with Raspberry Pi due to its power. Why would you limit your design options?..you want to use that power. Surface Mount is now part of the power you wield on your Raspberry Pi projects courtesy of Schmartboard.





SCHMARTBOARD MAKES  
BEAGLEBONE BARK LOUDER

LEARN MORE

# BeagleBone

Product Number	Description	Price
205-0001-01	BeagleBone Prototyping Cape Without Header and Breadboard	\$10.00
205-0001-02	BeagleBone Prototyping Cape With Header and Breadboard	\$13.00
205-0001-03	BeagleBone SC70 & SOT 23 Prototyping Cape Kit	\$18.00
205-0001-04	BeagleBone 1.27mm Pitch SOIC Prototyping Cape Kit	\$18.00
205-0001-06	BeagleBone .65mm Pitch SOIC Prototyping Cape Kit	\$18.00
205-0001-07	BeagleBone .5mm Pitch SOIC Prototyping Cape Kit	\$18.00
205-0001-13	BeagleBone .635mm Pitch SOIC Prototyping Cape Kit	\$18.00
205-0001-14	BeagleBone .5mm Pitch, 48 Pin QFP/QFN Prototyping Cape Kit	\$18.00
205-0001-15	BeagleBone .5mm Pitch, 12 & 24 Pin QFP/QFN Prototyping Cape Kit	\$18.00
205-0001-16	BeagleBone .5mm Pitch, 16 & 20 Pin QFP/QFN Prototyping Cape Kit	\$18.00
205-0001-17	BeagleBone .5mm Pitch, 32 Pin QFP/QFN Prototyping Cape Kit	\$18.00
205-0001-21	BeagleBone .5mm Pitch, 8 Pin DFN Prototyping Cape Kit	\$18.00
205-0001-22	BeagleBone .5mm Pitch, 10 Pin DFN Prototyping Cape Kit	\$18.00
205-0001-27	BeagleBone .65mm Pitch, 16 Pin QFP & QFN Prototyping Cape Kit	\$18.00
205-0001-28	BeagleBone .5mm Pitch, 12 Pin DFN Prototyping Cape Kit	\$18.00
205-0001-29	BeagleBone .5mm Pitch, 16 Pin DFN Prototyping Cape Kit	\$18.00
205-0001-44	BeagleBone .5mm Pitch, 40 Pin QFP/QFN Prototyping Cape Kit	\$18.00
205-0001-45	BeagleBone .5mm Pitch, 44 Pin QFP/QFN Prototyping Cape Kit	\$18.00

Not all BeagleBone users design their own Cape boards, but if you do, you certainly want to be able to use surface mount parts. Our through hole BeagleBone Cape boards have many other features to make better use of the space on our board and give you more flexibility. Our board also has a ground plane and pre-routed traces to reduce the need for jumpers. We then bundle our SMT to DIP adapters with the BeagleBone Prototyping Cape board to make SOIC, QFP, QFN/DFN part of your workable solution. You design with BeagleBone due to its power. Why would you limit your design options?..you want to use that power. Surface Mount is now part of the power you wield on your BeagleBone projects courtesy of Schmartboard.



# Wire Jumpers

SchmartBOARD™  
ELECTRONICS  
FOR EVERYONE



**NOT ALL  
JUMPERS ARE  
EQUAL**



Product Number	Description	Price
920-0016-01	Qty. 10 2" Female Jumpers and 20 Headers	\$6.00
920-0017-01	Qty. 100 2" Blue Female Jumpers	\$38.00
920-0005-01	Qty. 10 3" Red Female Jumpers and 20 Headers	\$6.00
920-0161-01	Qty. 10 3" Yellow Female Jumpers and 20 Headers	\$6.00
920-0162-01	Qty. 10 3" Black Female Jumpers and 20 Headers	\$6.00
920-0163-01	Qty. 10 3" White Female Jumpers and 20 Headers	\$6.00
920-0164-01	Qty. 10 3" Blue Female Jumpers and 20 Headers	\$6.00
920-0008-01	Qty. 100 3" Red Female Jumpers	\$38.00
920-0165-01	Qty. 100 3" Yellow Female Jumpers	\$38.00
920-0166-01	Qty. 100 3" Black Female Jumpers	\$38.00
920-0167-01	Qty. 100 3" White Female Jumpers	\$38.00
920-0168-01	Qty. 100 3" Blue Female Jumpers	\$38.00
920-0006-01	Qty. 10 5" Yellow Female Jumpers and 20 Headers	\$6.00
920-0009-01	Qty. 100 5" Yellow Female Jumpers	\$38.00
920-0176-01	Qty. 10 5" Grey Female Jumpers and 40 Headers	\$6.00
920-0177-01	Qty. 100 5" Grey Female Jumpers	\$38.00
920-0178-01	Qty. 10 5" Purple Female Jumpers and 40 Headers	\$6.00
920-0179-01	Qty. 100 5" Purple Female Jumpers	\$38.00
920-0180-01	Qty. 10 5" Black Female Jumpers and 40 Headers	\$6.00
920-0181-01	Qty. 100 5" Black Female Jumpers	\$38.00
920-0182-01	Qty. 10 5" Red Female Jumpers and 40 Headers	\$6.00
920-0183-01	Qty. 100 5" Red Female Jumpers	\$38.00
920-0097-01	Qty. 10 5" Yellow Male Jumpers	\$7.00
920-0098-01	Qty. 100 5" Yellow Male Jumpers	\$45.00
920-0022-01	Qty. 10 5" Purple Male to Female Jumpers and 20 Headers	\$6.00
920-0023-01	Qty. 100 5" Purple Male to Female Jumpers	\$45.00
920-0007-01	Qty. 10 7" Blue Female Jumpers and 20 Headers	\$6.00
920-0010-01	Qty. 100 7" Blue Female Jumpers	\$38.00
920-0104-01	Qty. 10 7" Red Female Jumpers and 40 Headers	\$6.00
920-0108-01	Qty 100 7" Red Female Jumpers	\$38.00
920-0105-01	Qty. 10 7" White Female Jumpers and 40 Headers	\$6.00
920-0109-01	Qty 100 7" White Female Jumpers	\$38.00
920-0106-01	Qty. 10 7" Black Female Jumpers and 40 Headers	\$6.00
920-0110-01	Qty 100 7" Black Female Jumpers	\$38.00
920-0107-01	Qty. 10 7" Yellow Female Jumpers and 40 Headers	\$6.00
920-0111-01	Qty 100 7" Yellow Female Jumpers	\$38.00

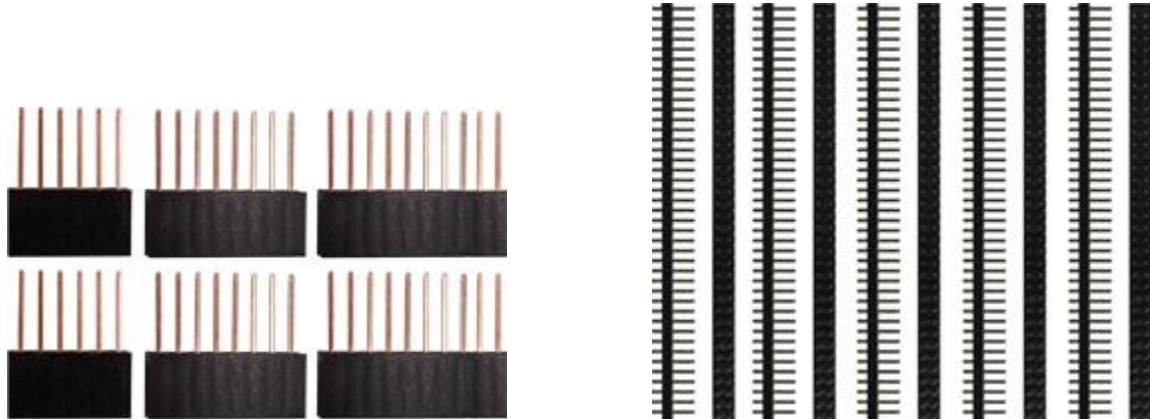
920-0167-50	Qty 10 of Yellow, Blue, Red, Black & White 3" Female Jumpers and 200 Headers	\$25.00
920-0192-50	Qty. 10 of Grey, Purple, Black, Red and Yellow 5" Female Jumpers and 200 Headers	\$25
920-0112-50	Qty 10 of Yellow, Blue, Red, Black & White 7" Female Jumpers and 200 Headers	\$25.00
920-0193-50	Qty. 10 of Green, Red, Orange, Brown and Black 9" Female Jumpers and 200 Headers	\$30.00
920-0156-50	Qty 10 of Blue, Brown, White, Gray & Red 7" Male Female Jumpers and 200 Headers	\$30.00
920-0099-01	Qty. 10 7" Blue Male Jumpers	\$7.00
920-0100-01	Qty. 100 7" Blue Male Jumpers	\$45.00
920-0089-01	Qty. 10 7" Brown Male to Female Jumpers and 40	\$7.00
920-0092-01	Qty. 100 7" Brown Male to Female	\$45.00
920-0147-01	Qty. 10 7" White Male to Female Jumpers and 40	\$7.00
920-0148-01	Qty. 100 7" white Male to Female	\$45.00
920-0149-01	Qty. 10 7" Gray Male to Female Jumpers and 40	\$7.00
920-0150-01	Qty. 100 7" Gray Male to Female	\$45.00
920-0151-01	Qty. 10 7" Red Male to Female Jumpers and 40	\$7.00
920-0152-01	Qty. 100 7" Red Male to Female	\$45.00
920-0153-01	Qty. 10 7" Black Male to Female Jumpers and 40	\$7.00
920-0154-01	Qty. 100 7" Black Male to Female	\$45.00
920-0065-01	Qty. 10 9" Black Female Jumpers and 20 Headers	\$7.00
920-0066-01	Qty. 100 9" Black Female Jumpers	\$45.00
920-0184-01	Qty. 10 9" Green Female Jumpers and 40 Headers	\$7.00
920-0185-01	Qty. 100 9" Green Female Jumpers	\$45.00
920-0186-01	Qty. 10 9" Red Female Jumpers and 40 Headers	\$7.00
920-0187-01	Qty. 100 9" Red Female Jumpers	\$45.00
920-0188-01	Qty. 10 9" Orange Female Jumpers and 40 Headers	\$7.00
920-0189-01	Qty 100 9" Orange Female Jumpers	\$45.00
920-0190-01	Qty. 10 9" Brown Female Jumpers and 40 Headers	\$7.00
920-0191-01	Qty 100 9" Brown Female Jumpers	\$45.00
920-0090-01	Qty. 10 9" White Male to Female Jumpers and 40	\$8.00
920-0093-01	Qty. 100 9" White Male to Female	\$50.00
920-0020-01	Qty. 10 12" Green Female Jumpers and 20 Headers	\$7.00
920-0019-01	Qty. 100 12" Green Female Jumpers	\$45.00
920-0139-01	Qty. 10 12" White Female Jumpers and 20 Headers	\$7.00
920-0140-01	Qty. 100 12" White Female Jumpers	\$45.00
920-0141-01	Qty. 10 12" Yellow Female Jumpers and 20 Headers	\$7.00
920-0142-01	Qty. 100 12" Yellow Female Jumpers	\$45.00
920-0143-01	Qty. 10 12" Red Female Jumpers and 20 Headers	\$7.00
920-0144-01	Qty. 100 12" Red Female Jumpers	\$45.00
920-0145-01	Qty. 10 12" Black Female Jumpers and 20 Headers	\$7.00
920-0146-01	Qty. 100 12" Black Female Jumpers	\$45.00
920-0091-01	Qty. 10 12" Orange Male to Female Jumpers and 40	\$8.00
920-0094-01	Qty. 100 12" Orange Male to Female	\$50.00
920-0155-01	Qty 10 of Green, White, Yellow, Red & Black 12" Female Jumpers and 200 Headers	\$30.00

920-0074-01	Qty. 10 24" Black Female Jumpers and 40 Headers	\$8.00
920-0075-01	Qty. 100 24" Black Female Jumpers	\$50.00
920-0067-01	Qty. 20 of each, 2", 3", 5", 7" and 9" Female Jumpers	\$40.00
920-0067-50	Qty. 10 of each, 3", 5", 7", 9" and 12" Female Jumpers	\$20.00
920-0067-25	Qty. 5 of each, 3", 5", 7", 9" and 12" Female Jumpers	\$15.00
920-0095-01	Qty. 25 of each 5", 7", 9", and 12" Male to Female	\$50.00
920-0095-25	Qty. 5 of each 5", 7", 9", and 12" Male to Female	\$12.00
920-0095-60	Qty. 15 of each 5", 7", 9", and 12" Male to Female	\$33.00
920-0096-50	Qty. 50 Daisy Chained Female Jumpers	\$25.00
920-0113-01	Qty. 4 Female 2 x 5 IDC Sockets	\$3.00
920-0114-01	Qty. 4 Female 2 x 7 IDC Sockets	\$3.00
920-0115-01	Qty. 4 Female 2 x 13 IDC Sockets	\$3.00
920-0116-01	Qty. 4 Male 2 x 5 IDC Sockets	\$3.00
920-0117-01	Qty. 4 Male 2 x 7 IDC Sockets	\$3.00
920-0118-01	Qty. 4 Male 2 x 13 IDC Sockets	\$3.00
920-0119-01	Qty. 2 Female 2 x 5 IDC Sockets with 12" Long 26 wide Ribbon Cable	\$3.00
920-0120-01	Qty. 2 Female 2 x 7 IDC Sockets with 12" Long 26 wide Ribbon Cable	\$3.00
920-0121-01	Qty. 2 Female 2 x 13 IDC Sockets with 12" Long 26 wide Ribbon Cable	\$3.00
920-0122-01	Qty. 1 12" Long 26 Wide Ribbon Cable	\$2.00
920-0079-01	Qty. 2 three prong female to female cable harness with 12" cables	\$5.00
920-0080-01	Qty. 5 three prong female to female cable harness with 12" cables	\$10.00
920-0123-01	Red Wire Hacks	\$5.00
920-0124-01	Black Wire Hacks	\$5.00
920-0125-01	White Wire Hacks	\$5.00
920-0126-01	Yellow Wire Hacks	\$5.00
920-0127-01	Blue Wire Hacks	\$5.00
920-0128-01	Green Wire Hacks	\$5.00
920-0129-01	Clear Wire Hacks	\$5.00
920-0130-01	7 Color Assortment Wire Hacks	\$5.00
922-0001-01	Qty. 5 Black Male/Female 11" 4 Way Bus Jumpers With 40 Headers	\$9.00
922-0002-01	Qty. 5 White Male/Female 11" 4 Way Bus Jumpers With 40 Headers	\$9.00
922-0003-01	Qty. 5 Red Male/Female 11" 4 Way Bus Jumpers With 40 Headers	\$9.00
922-0004-01	Qty. 5 Yellow Male/Female 11" 4 Way Bus Jumpers With 40 Headers	\$9.00
922-0005-01	Qty. 5 Blue Male/Female 11" 4 Way Bus Jumpers With 40 Headers	\$9.00

All jumpers are not made equal. You will find that the male and female receptacles on Schmartboard jumpers are thinner than most on the market, which allow you to work better and easier in tight areas. Our Female receptacles fit snugly on .1" and 2mm headers. We challenge you to compare ours head to head with others because we know you will immediately understand the difference. They are rated to handle the following specs: 28AWG, UL1007, 80 deg C, 300V.



# Headers



Product Number	Description	Price
920-0011-01	Qty. 10 0.1" Spacing 80-Single Row Headers	\$5.00
920-0012-01	Qty. 10 0.1" Spacing 80-Dual Row Headers	\$8.00
920-0076-01	Qty. 10 0.1" Spacing 40-Single Row Right Angle Headers	\$6.00
920-0102-01	Qty. 5 0.1" Spacing 40-Extra Long Single Row Headers	\$5.00
920-0171-01	Qty 3 0.1" Spacing 40 Machine Pin Female Headers(Swiss Machine Pin)	\$5.00
920-0172-01	Qty 3 0.1" Spacing 40 Machine Pin Male Headers(Swiss Machine Pin)	\$5.00
920-0157-01	Qty. 50 Connector 0.1 Inch Shunts	\$5.00
920-0018-01	Qty. 5 40 Pin 2mm Spacing Single Row Headers	\$5.00
920-0077-01	Qty. 5 40 Pin 2mm Dual Row Headers	\$9.00
920-0158-50	Qty. 50 Connector 2mm Shunts	\$5.00
920-0085-01	Qty. 6, Six Pin Stackable Headers for Arduino	\$5.00
920-0086-01	Qty. 6, Eight Pin Stackable Headers for Arduino	\$5.00
920-0087-01	Qty. 6, Ten Pin Stackable Headers for Arduino	\$5.00
920-0088-01	Qty. 2 of each, Six, Eight and Ten Pin Stackable Headers for Arduino	\$5.00
920-0103-01	Qty. 3 2 x 18 Pin Stackable Headers	\$5.00
920-0131-01	Qty. 2 Special 2 x 13 Stackable Headers	\$4.00
920-0132-01	Qty. 3 Standard 2 x 13 Stackable Headers	\$5.00
920-0133-01	Qty. 4 Short 2x10 Stackable Headers	\$3.00
920-0134-01	Qty. 4 Short 2x13 Stackable Headers	\$3.00
920-0135-01	Qty. 4 Short 2x20 Stackable Headers	\$3.00

Headers are a category where you get what you pay for. We've seen products the market with bent, broken or missing teeth. Schmartboard headers are always immersed in gold to assure the best connection and to avoid oxidation. Why let something as trivial as a header ruin your complicated projects. You will be satisfied with Schmartboard headers. We do not manufacture these, but we do source them carefully and do not just go to the lowest cost supplier.



on

# Accessories



Product Number	Description	Price
920-0003-01	Qty. 20 Mechanical Bridges(Connect Schmartboards together)	\$5.00
920-0013-01	DB89 Male to DB89 Female, 6' Serial Cable	\$6.99
920-0014-01	USB 2.0 Type A to Type B 6' USB Cable	\$6.99
920-0015-01	USB 2.0 Type A to Mini Type B 6' Cable	\$6.99
920-0055-01	10" Female PIC Programming Cable	\$5.00
920-0138-01	10" Male PIC Programming Cable	\$7.00
920-0101-01	Blue Breadboard 170 Tie Points with Adhesive Back	\$3.95
920-0159-01	White Breadboard 170 Tie Points with Adhesive Back	\$3.95
920-0160-01	Red Breadboard 170 Tie Points with Adhesive Back	\$3.95
920-0170-01	3 Pack, (Red, White and Blue) 170 Tie Point Breadboards	\$10.00
920-0137-01	Breadboard 400 Tie Points with Adhesive Back	\$5.50
920-0031-01	Breadboard 830 Tie Points with Adhesive Back	\$7.95
920-0025-02	Elenco Soldering Iron	\$39.99
920-0025-01	Elenco soldering iron with assorted tips and flux pen	\$54.99
920-0056-01	Soldering Iron Tip Package for Elenco SL-5 Iron	\$16.99
920-0026-01	Kester Water Soluble Flux Pen	\$8.00
981-0010-01	Desoldering Pump	\$6.50
920-0081-01	Tip Tinner Cleaner	\$10.99
920-0082-01	Desoldering Wick	\$1.99
920-0083-01	Soldering Tip Cleaner	\$10.99
920-0084-01	Helping Hands w/ Magnifying Glass	\$6.99
920-0175-01	Bench Werx Deluxe PCB Holder	\$79.99

These are a few items that are required for using many of our products. We offer them as a convenience to our customers. The Solder Flux for instance is needed with all of our "EZ" solder boards.

## Did You Know Schmartboards Can Connect Together? They Allow You To Work on a Block and Then Connect Them. See part # 920-0003-01, Mechanical Bridges under “Accessories”

### Step 1 – Select SchmartBoards

Select the boards that you need for the project. (Tip-print out the large mechanical drawing of each of the Schmartboards, which are on each of the product pages, and figure out where you will place your components)

### Step 2- Solder the components onto the board

Think of each board as a circuit block. You can troubleshoot each circuit block separately rather than dealing with a large board that may make it difficult to isolate issues. (We call this patented concept “Electronic Circuit Building Blocks”)

### Step 3- Connect the boards

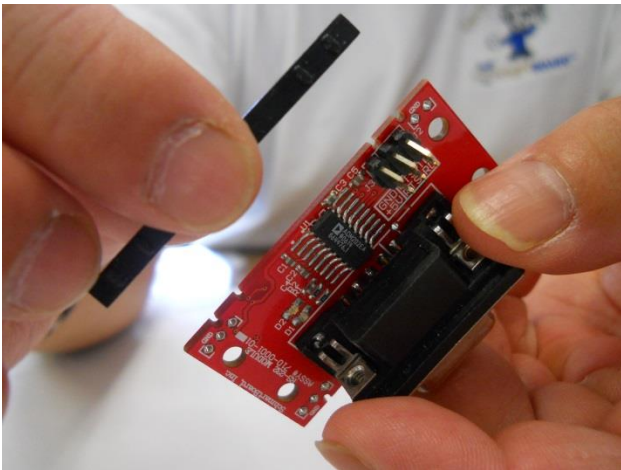
Schmartboard’s Mechanical Bridges(SchmartBridges) allow you to physically connect the boards together once you have determined that you are happy with the circuit blocks. See photos below

### Step 4 – Connect Wire Jumpers

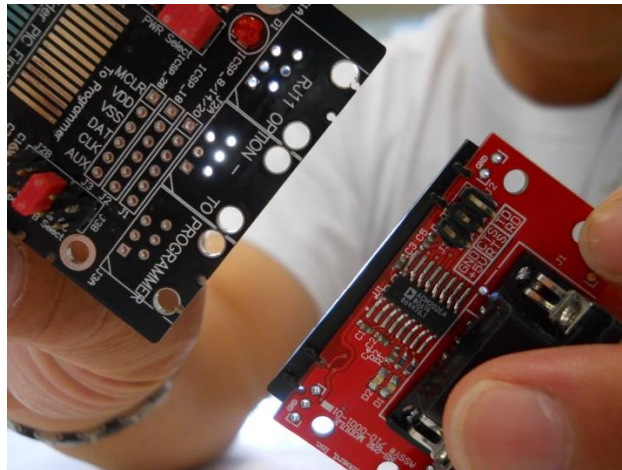
You have physically connected the boards, but you still must connect the signals. A popular way of doing this is with Schmartboard female jumpers and headers. Our jumpers fit snugly on .1” headers to assure a good connection.

### Step 5 – Test and make modifications

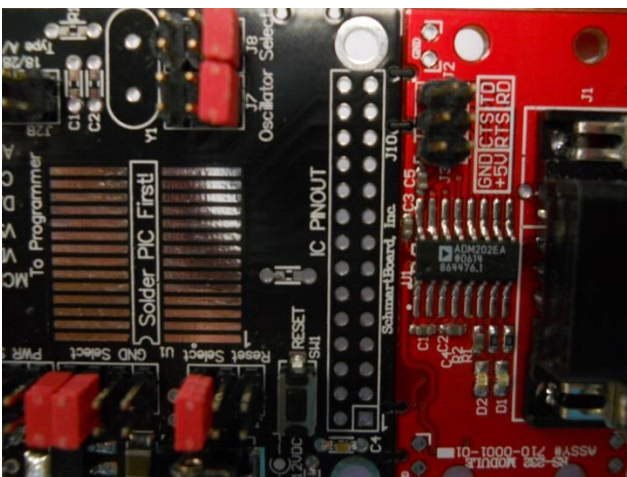
Test the whole circuit, and if needed take the easily boards apart to troubleshoot.



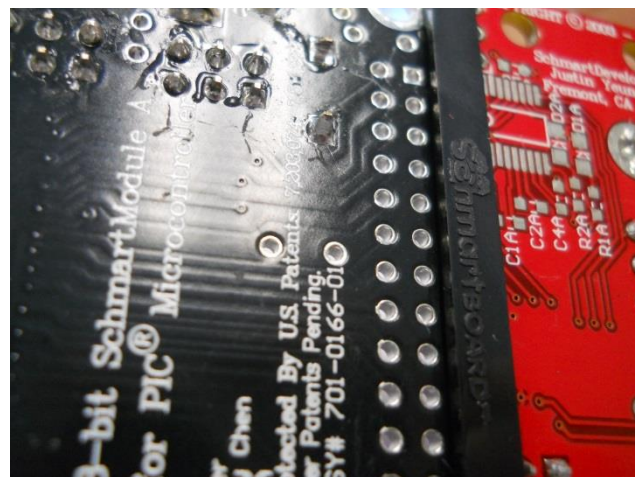
Connecting the mechanical bridge to a board. Notice the slots on the board and nubs on the bridge



Connect your finished circuit blocks together using the mechanical bridge



Top View of connected boards. These hold the boards, but glue is optional for a solid connection



View from the back of two boards connected

# Schmartboard Apparel



Schmartboard Logo's merchandise is available at  
<http://schmartboard.qbstores.com/>.

*e-mail us a photo of you in your Schmartboard apparel for posting on our Social Media Sites with your shipping address and we will send you a fantastic gift! [info@schmartboard.com](mailto:info@schmartboard.com)*



# Engineering Services

Electronic Circuit Design & Schematic Design

Printed Circuit Board Design & Layout

Printed Circuit Board Fabrication

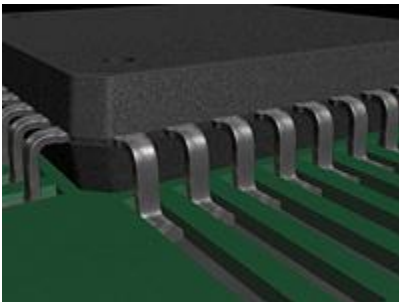
Electronic Circuit Board Assembly

Electronic Component Sourcing

Cable Design and Fabrication

Mechanical Engineering Design and Fabrication

Services - SchmartBoard|ez Custom Boards



Do you have a need for SchmartBoard|ez technology that can not be addressed by our current standard prototyping board selection? Creating a custom board may be the solution for you.

\*\*As a reference, SchmartBoard can create a 2" x 2", two Layer custom prototyping board with EZ technology in most cases for a \$300 one time NRE(non-recurring engineering cost), plus \$20 per board (10 minimum).

To discuss your needs in more detail or to get a quote, send an e-mail to [info@schmartboard.com](mailto:info@schmartboard.com) with whatever information you can give us.

If SchmartBoard does not currently support a particular component type in the pitch you require, we may be able to expedite this generic SchmartBoard for you. As a reference, expect to pay \$500 to receive 20 boards (at \$10 per board in 204- product line format) plus a \$300 one time NRE. We can then produce that generic SchmartBoard|ez immediately. Contact us for more details.

SchmartBoard, Inc.  
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510-744-9900  
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[www.schmartboard.com](http://www.schmartboard.com)  
[info@schmartboard.com](mailto:info@schmartboard.com)  
[www.facebook.com/schmartboard](https://www.facebook.com/schmartboard)  
[www.twitter.com/schmartboard](https://www.twitter.com/schmartboard)  
[www.youtube.com/nealgb](https://www.youtube.com/nealgb)

***Schmartboard has major specials each month. To be notified of these, join our mailing list. You can always opt out. We send 1 e-mail per week tops. Send an e-mail to [info@schmartboard.com](mailto:info@schmartboard.com) with "Mailing List" in the subject heading from the e-mail address you want to have notices sent.***

# What's New?

**ANALOG..LOVE IT, OR HATE IT..EITHER WAY, YOU NEED IT!**

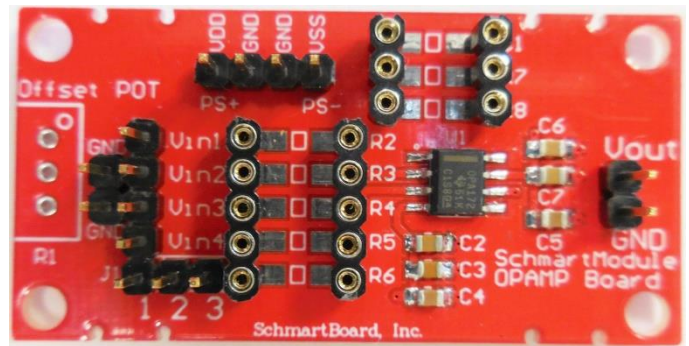
We've met a lot of great digital designers. They can create great circuits, they can embed great code, they can manifest wonderful projects. They are awesome..until the need for something analog comes into play. Analog is that monster that people avoid, the 10,000 pound gorilla in the room, the unspeakable hurdle that keeps an engineer up at night.

Schmartboard feels your pain. We have released a family of analog modules. They are targeted to the following 3 groups:

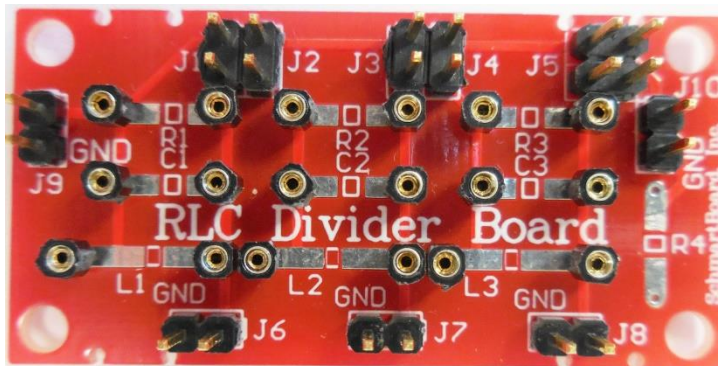
1. The digital guy who needs some help on the analog portion of his project
2. The engineer who is competent with analog but does not want to re-invent the wheel for a project
3. The instructor who wants tools to teach analog to his students. (and the student who wants to learn analog)



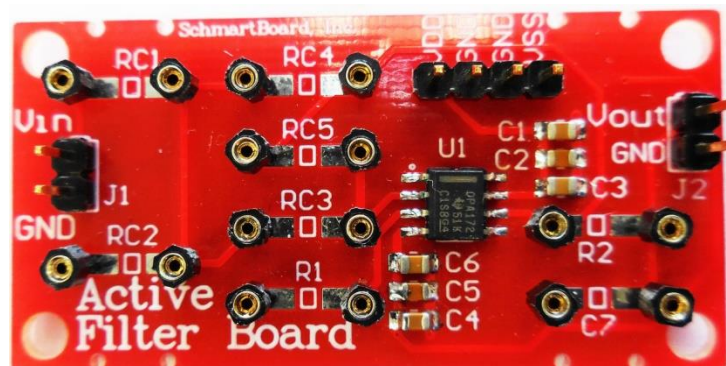
**Schmartboard Level Shifter**



**Schmartboard OpAmp Board**



**Schmartboard RLC Divider Board**



**Schmartboard Active Filter Board**

Look for Schmartboard to release more modules soon!