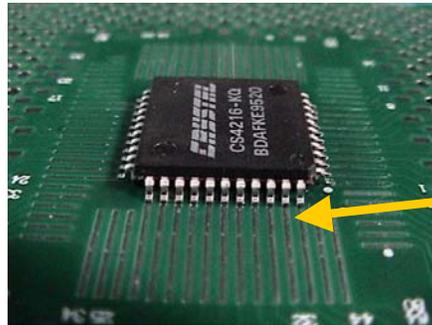
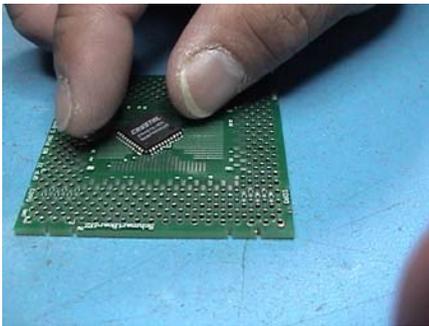




SchmartBoardEZ instructions

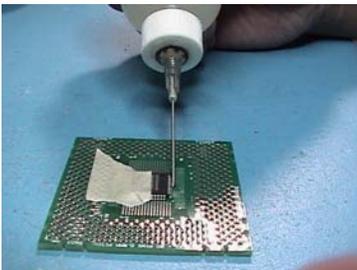
SchmartBoardEZ uses a new patent pending technology to make hand soldering surface mount components simple. There are two reasons that it has been difficult in the past to hand-solder surface mount components. First it is hard to correctly place the chips on the pads and keep them aligned. Secondly, it is difficult to hand-solder such tiny areas. *Please follow these instructions to assure success.*

1) Place the chip-What makes SchmartBoardEZ so revolutionary is that the solder mask (green part of the board) is higher than the electronic pads(silver part). This is the opposite of all other circuit boards you've seen. This will allow you to easily place the chip on the pads because these pads are in grooves. The chip legs fit in the grooves and the chip holds in place.



Chip legs are in the grooves, thus touching the pads and holding the chip in place

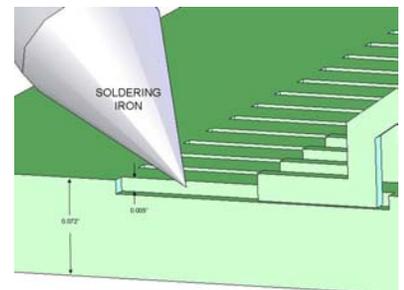
2) Put masking tape on one side of the chip to hold it in place- This will keep the chip aligned and keep both hands free to easily solder the board.



3) Put Solder Flux along the base of the chip where it touches the board-

Flux only the side that you are currently soldering. (The side without masking tape)

4) Solder each chip leg to the SchmartBoardEZ, by pushing the solder from the outside of the groove to the chip leg- *You do not need to add any solder to this board. All the solder you need is already on the board.* Put the soldering iron tip in the first electronic pad groove at the outside point of the groove and push it forward until it touches the chip leg. Do not put pressure in a downward position, the solder will melt and be pushed towards the leg. Do this in each groove that has a leg.



5) Remove the masking tape and repeat the steps 3 & 4 for other side(s) of the chip.
Important Note: The tip of your soldering iron should be equal to smaller than the pitch of your chip. So a .65 mm pitch chip should be soldered with a tip equal to or smaller than .65mm. Failure to do this may potentially create shorts and damage the board.

FYI- SchmartBoard can handle any of your electronic engineering and manufacturing needs from layout, schematic, to custom prototyping and low volume manufacturing.

In addition, SchmartBoard is the only company that can legally fabricate PCB's using the patent pending SchmartBoard|ez technology. This patent pending technology is a perfect solution for applications in which some components may need to be populated by hand.