

Intellitronic Devices, LLC is a product designer and manufacturer of innovative Electronics Educational Systems, as well as Electronic and Mechanical Devices. Our Educational Systems, focusing on Surface Mount Technology (SMT), provide students with the most comprehensive insight into this technology. We supply an economical, hands-on approach for students to learn SMT. Students build the circuits, gain an in-depth understanding of the technology and develop troubleshooting and circuit manipulation skills.

SMT Electronics in Education & Industry

Many schools teaching electronics in the United States are not yet teaching Surface Mount Technology (SMT). The general perception is that implementation is expensive and difficult due to the high equipment cost and small component size. Taking a quick look at SMT, it is easy to see how this perception has come into play. The reality is this: the high-end equipment is not practical in most educational environments. Nevertheless, the knowledge of running SMT equipment is an industry worthy skill. Additionally, there is greater value in the skill of reworking SMT PC boards.

PCBs are not really "Plug-and-Play". As technology advances, the cost of components and complex assemblies will increase, forcing manufacturers and repair shops into board level troubleshooting. The removal and replacement of these components requires skill and much practice to avoid destroying the PCB. With little investment, a good SMT assembly kit can be turned into an invaluable rework training aid when combined with a Solder Paste Dispenser, a Hot Air Station or Reflow Oven and a good set of SMT Tweezers. Having good rework skills and a sound foundation of SMT component identification and assembly documentation, will bring a student farther, faster, in the continually evolving world of SMT electronics.



**INTELLITRONIC
DEVICES**

35B Wilson Drive | Sparta | NJ | 07871
(973) 846-0074 | (416) 848-4236 [Canada]

Bring SMT Electronics into YOUR Classroom

The SMT Rework and Exploration Kit



SMT-210

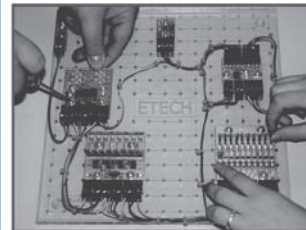
SMT-210 PBF
Lead Free Version

**210 COMPONENTS
AS LOW AS \$35.00!**

SMT

Little investment.... HUGE IMPACT

ETECH: The Digital Electronics Enhancement System



**Assemble
Rework
Wire
50+
Basic
Digital
Circuits**

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Microcontroller Rework Training Aid for 7-Segment Display Driver

This kit is a rework training aid for the 7-Segment Display Driver. It contains a PIC16C84 or PIC16F84 microcontroller and a 7-Segment Display. The kit is designed to be used with a Solder Paste Dispenser, a Hot Air Station or Reflow Oven and a good set of SMT Tweezers. The kit is designed to be used with a Solder Paste Dispenser, a Hot Air Station or Reflow Oven and a good set of SMT Tweezers. The kit is designed to be used with a Solder Paste Dispenser, a Hot Air Station or Reflow Oven and a good set of SMT Tweezers.

Microcontrollers in the Classroom

Microcontrollers are an excellent tool for teaching electronics in the classroom. They are small, powerful, and easy to use. They can be used to teach a wide range of topics, from basic electronics to advanced digital logic. They are also a great way to introduce students to the world of embedded systems.

There are many tools available to aid the teaching of MCUs in your classroom. Easy Microcontrol is a great book for beginners and provides some excellent tips and projects. Many programmers are available, however Microchip's PICSTART Plus Programmer is the best choice for ease of use and support and can be purchased for under \$200.00. The software comes with the programmer and is also free for download at www.microchip.com. To start using MCUs you will have to choose a PIC from the many ICs manufactured by Microchip. The PIC16F84 is an excellent chip to start with. This chip is easy to use, has good memory and twelve I/O ports. The memory is also flash (labeled by the "F" in the part number), so it can be erased using the programmer many times. MCUs with the "C" designation are one time programmable (OTP). For more information please contact us at Support@SMTKit.com.

www.IntellitronicDevices.com