



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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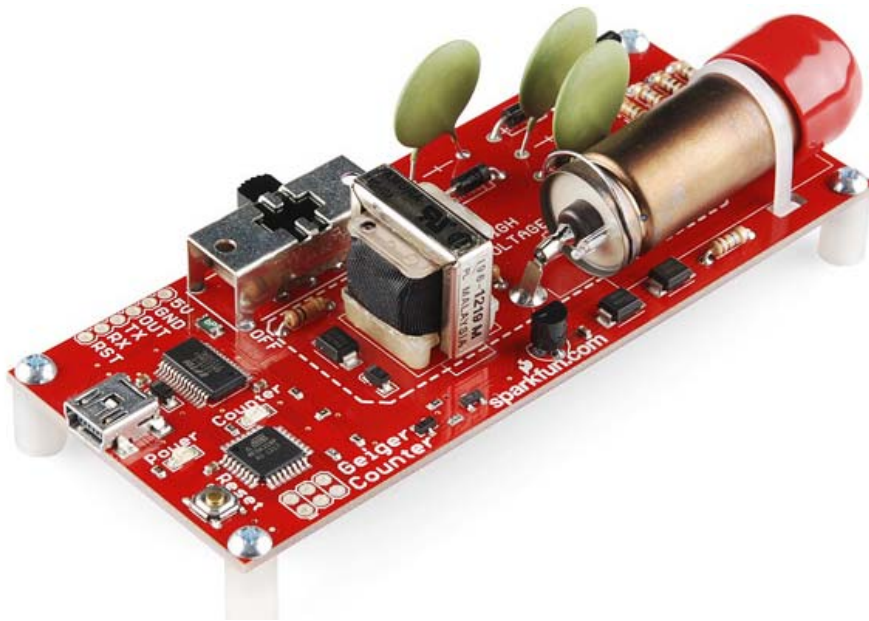
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SparkFun Geiger Counter

SEN-11345 RoHS



Description: You talked, we listened, and we've revised our Geiger Counter board to address some of the most pressing concerns. This version features an improved voltage regulation circuit for the Geiger tube which has a much cleaner output. We've also modified the signal capture portion of the board so that it reads active high, allowing for more dependable counts that are less susceptible to fouling due to line capacitance. The new signal capture circuit also pushes the CPM limit to 100Hz!

This USB powered SparkFun Geiger Counter is equipped with an ATmega328 that can be programmed in circuit using one of the programmers below. Simply plug the unit into USB (make sure you have FTDI drivers installed), open a terminal program to the correct COM port at 9600bps, and you will see random bits being generated from the random background radiation. Each bit generated (an ASCII byte 0 or 1) represents an actual event in the tube in real-time, so the output can be used to deduce CPM or what ever units you need. While you're at it, why not check out the random number generating Geiger counter tutorial?

Note: While the Geiger counter is powered and the switch is in the ON position, the board contains exposed high voltage components. In order to turn the unit off, you must flip the tube power switch to OFF while the USB cable is plugged in or while the board is still connected to your power supply.

The reason being; when you move the switch into the OFF position, the high voltage lines are bled out through a resistor connected to ground, more information on this is in the tutorial.

A project box or enclosure is suggested. Do not touch the end window of the Geiger tube and do not touch any conductive region inside the area marked HIGH VOLTAGE when the Geiger tube is powered ON. An enclosure is not absolutely necessary, but if you choose not use an enclosure, remember to be extra careful with the end window and high voltage regions.

The Geiger tube comes with a red boot to protect the end window during production, handling, and shipping. The boot should be removed if you need to detect alpha particles. However, you should still see activity from gamma and beta particles even with the boot on.

This product is controlled for export by the United States. Sending it to other countries may still be possible, but will require additional information prior to shipment.

Note: This product is for educational purposes and should not be directly relied upon for determinations regarding one's health or safety.

Dimensions: 4.15"x1.75"x1" (w/o standoffs)

Features:

- 5V Logic
- Total Current 30mA
- LND712 Geiger Tube @ 560V
- ATmega328 Microcontroller
- FTDI USB Interface
- On Board Power and Status LEDs
- TTL (Active High) Output Pin from Tube
- Arduino bootloader included. Use board type "Arduino Pro or Pro Mini, ATmega328 (3.3V, 8 MHZ)