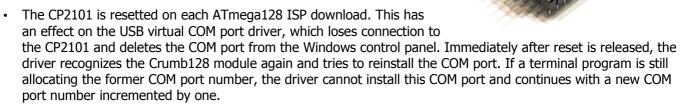
## Crumb128 V2.0 Patches

## CP2101 Reset Signal Patch.

If you don't use the USB interface, this patch is not recommended!

On Crumb128 V2.0 the reset signals of ATmega128 and CP2101 are tied together. This is not an indispensable feature and can lead to the following problem:

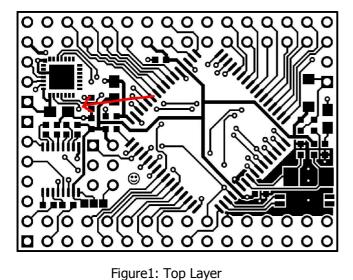


The only workaround would be to close the terminal program before ISP download or before any occurence of a module reset. Of couse, the latter might not be well-known in advance in a real application, were a reset could be asserted by the internal watchdog or something similar.

Since the CP2101 has a built in reset generator, it is not necessary to tie its reset signal to the rest of the application. The CP2101 reset pin is an open-collector output and doesn't need any external circuit. Thus the following patch is an easy solution to fix the above mentioned problem.

Figure 1 shows the top layer of Crumb128 V2.0 with the pcb track and via to the CP2101 labeled with a red arrow. The bottom layer is shown in figure 2 with the same via labeled. There are two options to split the reset track, I recommend the second one.

- Take a sharp cutter to split the pcb track either on the top layer between the CP2101 and the via or on the bottom layer between the two vias or
- take a small drill bit (1 or 2mm diameter) and drill / countersink slighty into the via hole until the annular copper ring of the via is milled away. Do it from the bottom side, since there are no adjacent components. Do not completely drill through the pcb!!!



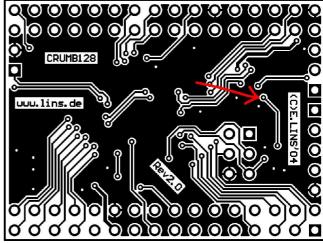


Figure 2: Bottom Layer

**Disclaimer** – Erik Lins makes no warranty for the use of its products and assumes no responsibility for any errors which may appear in this document nor does it make a commitment to update the information contained herein. Erik Lins products are not intended for use in medical, life saving or life sustaining applications. Erik Lins retains the right to make changes to these specifications at any time, without notice. All product names referenced herein are trademarks of their respective companies.

