

PC Remote Display

eZ2940

ZiLOG 2004 FLASH NETS CASH
Design Contest



Overview

1.1 Description

The “PC Remote Display” is connected serially to a PC. A small tool on the PC is periodically taking screenshots of parts of the desktop and sending these to the Remote Display which is displaying it.

1.2 Hardware Parts

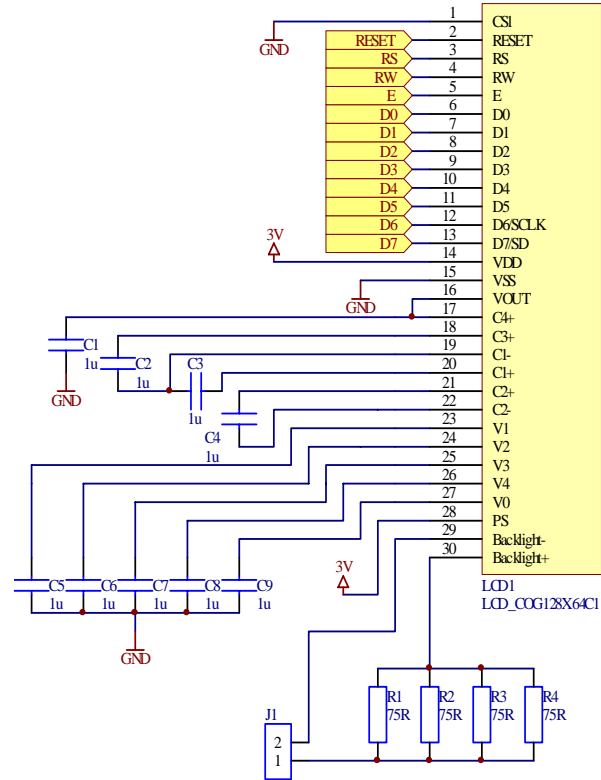
- eZ80F91 Acclaim! Contest Kit
- Graphic LCD Module; COG 128X64C1

1.3 Software Parts

- Firmware for the Microcontroller
- PC Application for taking the screenshots

LCD Electronics

The display only needs some capacitors to generate the desired voltages to drive the LCD. All other parts are integrated in the “chip on glass”.



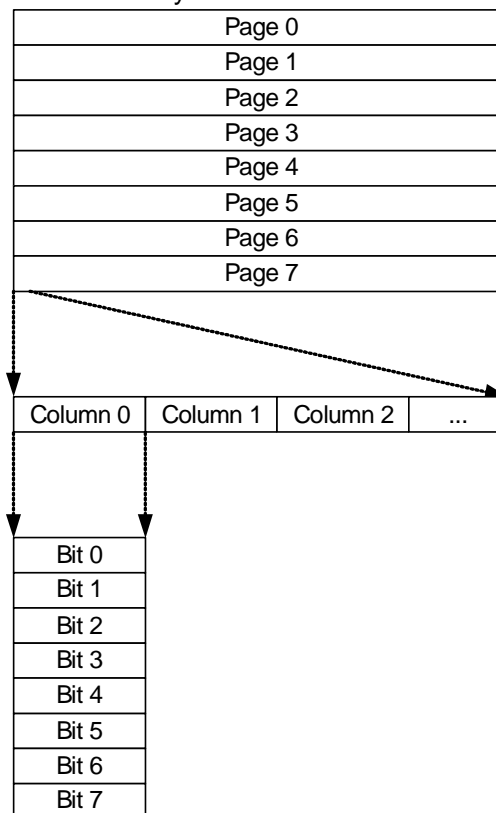
LCD Description

Type: Tecdis COG 128X64C1

Heart of the display is a Samsung ICS6B0724 driver IC.
The display has a resolution of 128x64 Pixels and an integrated green LED-Backlight.
It has 1kB RAM to hold the whole screen area, which can be written and read.



The memory is organized in this way:



The displayed area is divided into 8 lines or pages. Each page is divided into 128 columns of 8 Bits.
It's possible to read/write the columns in a random order.