

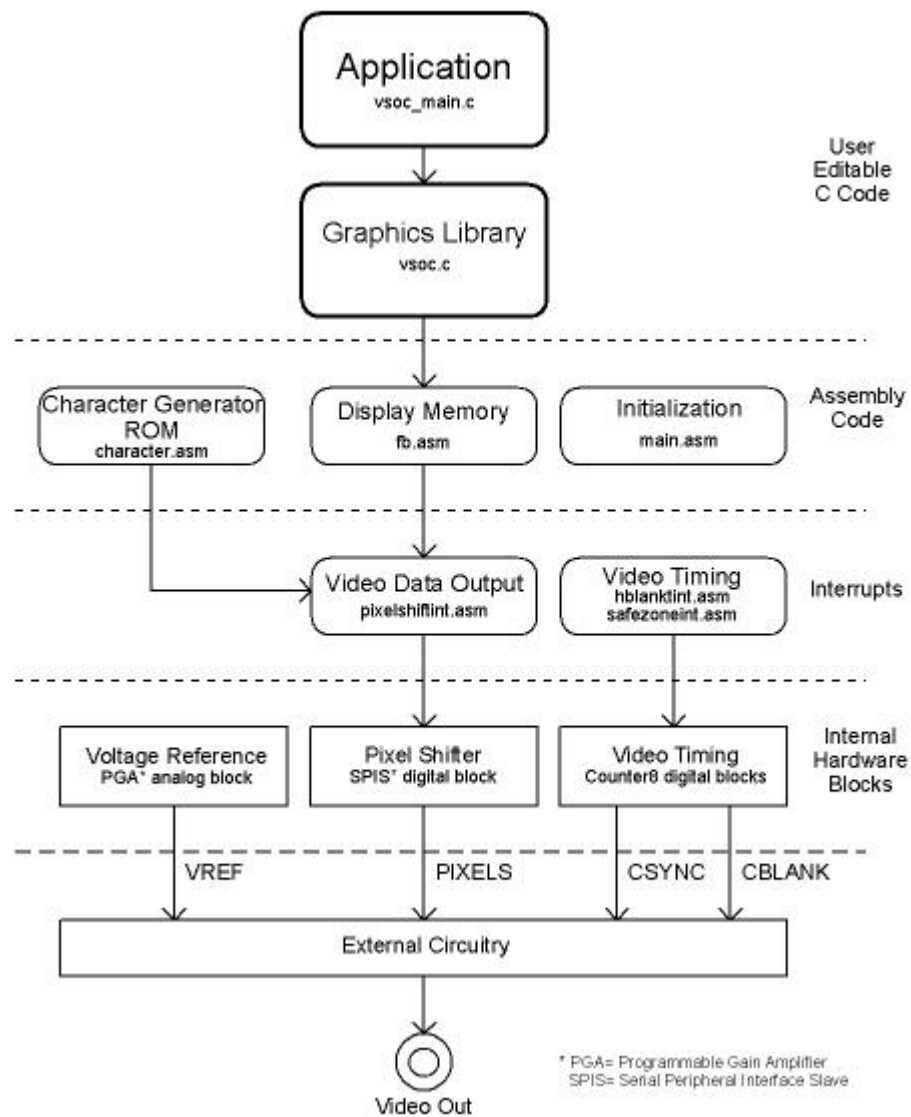
VSoC: Video Subsystem-on- (a PSoC) Chip

General Description

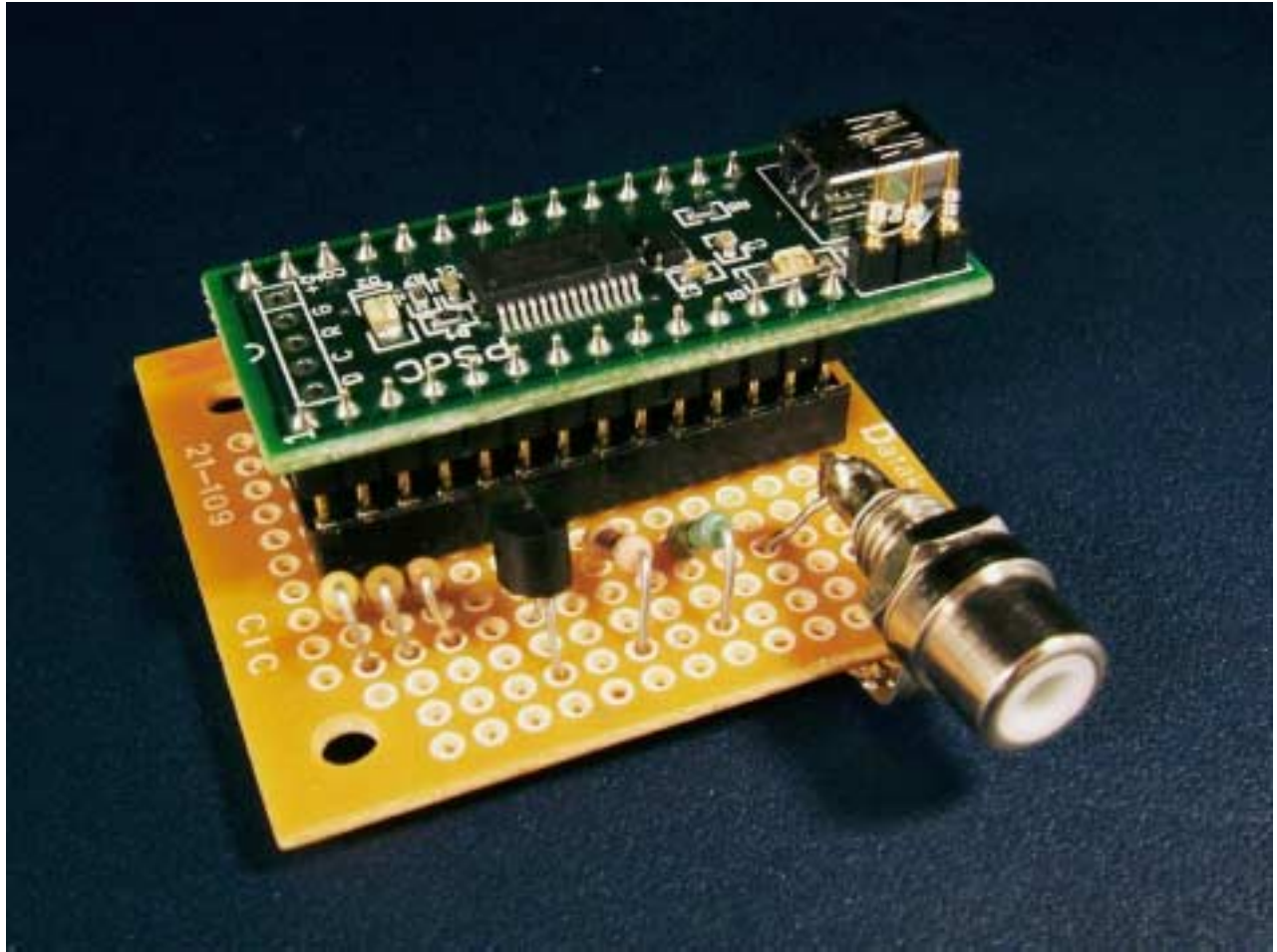
VSoC is a PSoC subsystem which enables an application program running on a PSoC to display text and graphics. The VSoC video signal is compatible with the EIA RS170 television broadcast standard, and is displayable on a TV set and recordable by a VCR. The video resolution is 112 x 80 pixels in black and white.

VSoC allows the application program to run without concern for how the video is generated. This is in contrast with past implementations of video on microcontrollers (Pong games and such), which were highly optimized, and not suitable for general-purpose information display. The VSoC subsystem however runs independently of the user application, at a cost of perhaps half of the resources available to the PSoC microcontroller.

The external circuitry required uses very few parts, all of which will typically be found in an electronics hobbyist's parts stock. With only 5 resistors, 1 transistor, and an RCA connector, circuit assembly is quick and simple.



Project Number C2853



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