

**VC0342** is a low cost USB 2.0 camera processor targeting for embedded Notebook webcam and standard-alone webcam. With a programmable sensor master clock output, VC0342 can support most common CMOS image sensors from VGA to 1.3Mega pixel resolution. By integrating a 1 channel audio ADC; it is also fully compliant with UVC and UAC standard.

## KEY FEATURES

### Standards

- Built-in USB2.0 HS & FS transceiver
- Built-in 32KB OTP memory
- Support ISO IN pipe for video streaming
- Compliant with USB Video Class 1.1
- Compliant with USB Audio Class 1.0

### MCU

- Built-in 8051 micro controller
- Built-in 32KB OTP ROM for running program code
- Built-in 4KB SRAM for data
- Support EEPROM for setting and code

### Sensor Interface

- Support CMOS Image Sensors
- Support sensors with YUV/MJPEG output
- Support parallel interface
- Programmable sensor clock output
- Support I2C for sensor configuration

### ISP / IPP

- No Internal ISP
- Use Sensor's ISP or Software ISP

### Video capability

Standard	Resolution	YUY2	MJPEG
VGA	640x480	30fps	N/A
SXGA	1280x1024	7fps	N/A

### Audio capability

- Built-in ADC for ECM audio microphone
- Support 16-bit PCM
- Support multiple sample rates(8KHz-48KHz)

### I/O

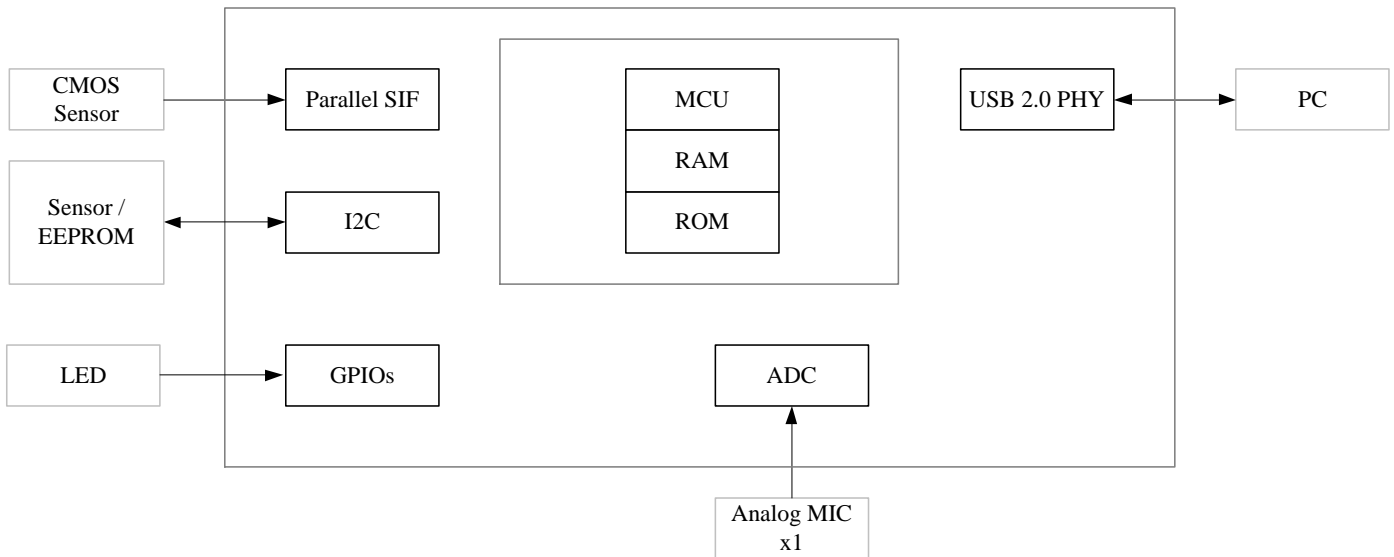
- USB 2.0 High Speed (Device)
- GPIO / PWM / I2C / ADC

### Package Information

Part Number	VC0342TLNB
Package Type	T-QFN 48pins
Size	6.5 x 5mm

Part Number	VC0342PLNB
Package Type	LQFP 48pins
Size	7 x 7mm

#### Chip Block Diagram



#### Application Diagram

