

VC0344 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, VC0344 can support most common CMOS image sensors from VGA to 1.3Mega pixel resolution. By integrating PDM for up to 2-channel audio microphones; 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 PDM interface for digital MIC
- Support up to 2 digital microphones
- Support multiple sample rates(8KHz-48KHz)

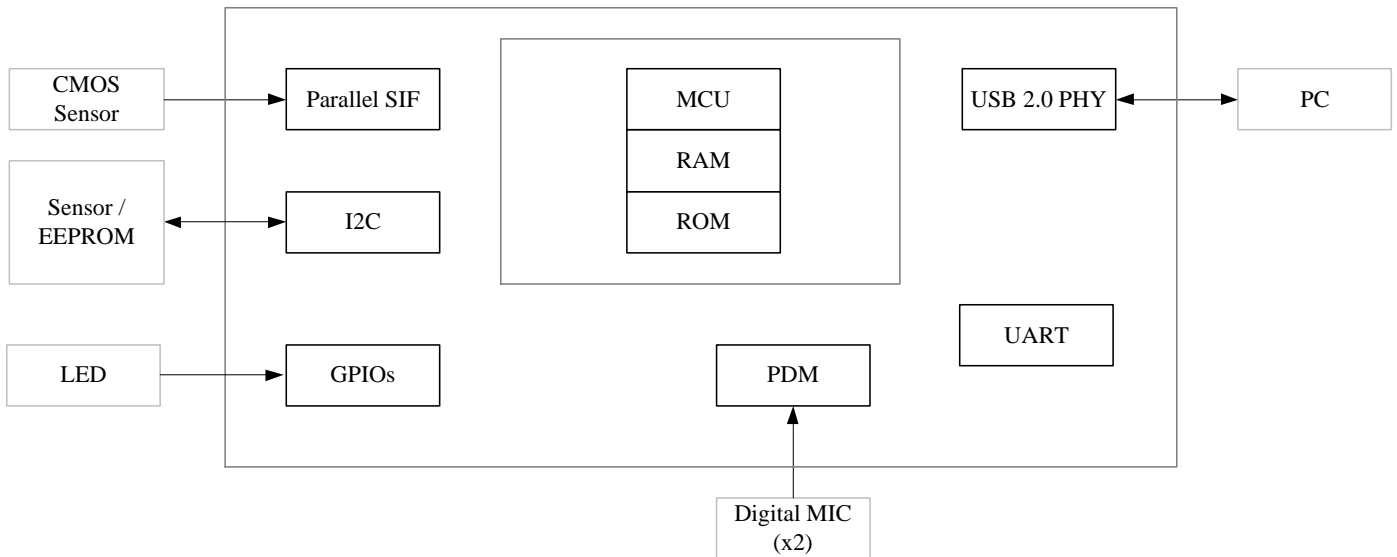
I/O

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

Package Information

| | |
|--------------|--------------|
| Part Number | VC0344TLNB |
| Package Type | T-QFN 48pins |
| Size | 6.5 x 5mm |

Chip Block Diagram



Application Diagram

