

VC0361 is a new low cost USB 2.0 camera processor targeted for embedded Notebook webcam and standard-alone webcam. It has integrated a 10-bit Image Signal Processing (ISP) unit and a built-in MJPEG encode engine to provide high image quality. It can support most common CMOS sensors with resolutions from VGA to 1.3Mega. It is also fully compliant with UVC standard.

KEY FEATURES

Standards

Built-in USB2.0 HS & FS transceiver
Built-in 64KB ROM
Support ISO IN pipe for video streaming
Compliant with USB Video Class 1.1

MCU

Built-in 8051 core compatible micro controller
Built-in 4KB on-chip SRAM for data
Support EEPROM for setting and code

Sensor Interface

Support CMOS Image Sensors
Support sensors with RAW /YUV/JPEG output
Support Parallel interface
Programmable sensor clock output
Support I2C for sensor configuration

ISP / IPP

Support 10-bit ISP
Support AE/AWB/AGC
Flicker detection and cancellation
Gamma / Contrast / color correction
Configurable Brightness / Saturation / Hue
Sharpness and Edge Enhancement
Backlight compensation
Lens Shading Compensation
Advance DPD&DPC
Configurable noise reduction

Video capability

Standard	Resolution	YUY2	MJPEG
VGA	640x480	30fps	60fps
SXGA	1280x1024	7fps	15fps*
*only for sensor YUV output			

I/O

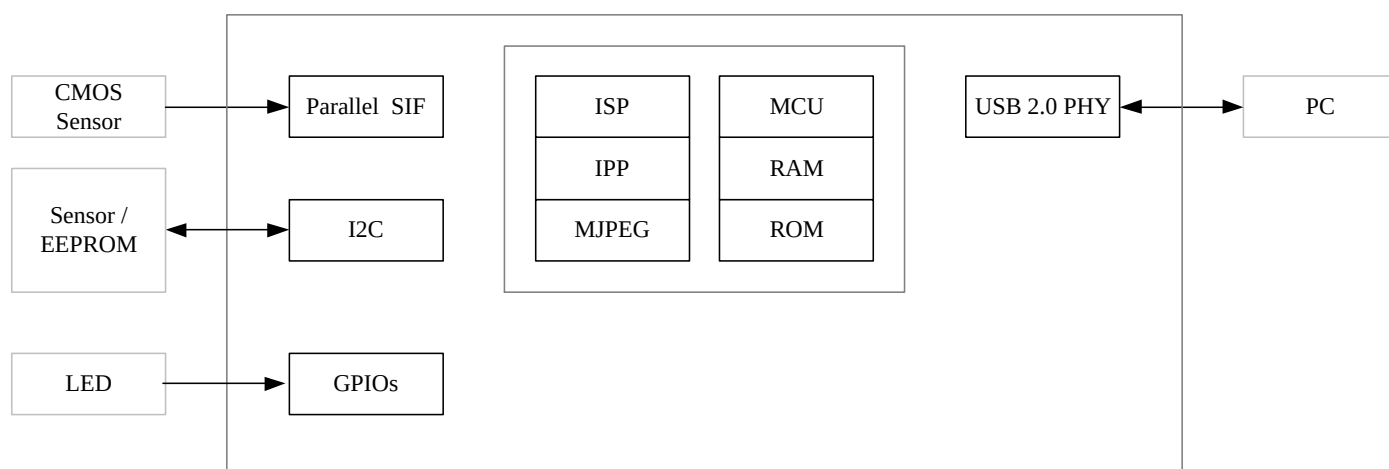
USB 2.0 High Speed (Device)
GPIO / PWM / I2C

Package Information

Part Number	VC0361TLNA
Package Type	T-QFN 48pins
Size	6.5 x 5mm

Part Number	VC0361PLNA
Package Type	LQFP 48pins
Size	7 x 7mm

Chip Block Diagram



Application Diagram

