VC0347TLNA is a cost effective with high quality USB 2.0 camera processor targeting for high quality embedded Notebook webcam and standard-alone webcam. With a programmable sensor master clock output, by integrated JPEG encode engine, VC0347TLNA can support most common CMOS image sensors from VGA to 2Mega pixel resolution; it is also fully compliant with UVC standard.

KEY FEATURES

Standards

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

MCU

Built-in 8051 micro controller
Built-in 64KB OTP ROM for running program code
Built-in 2KB 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

1-D noise reduction and UV suppression
Hardware digital sizer on YUV
JPEG compression for video streaming

Video capability

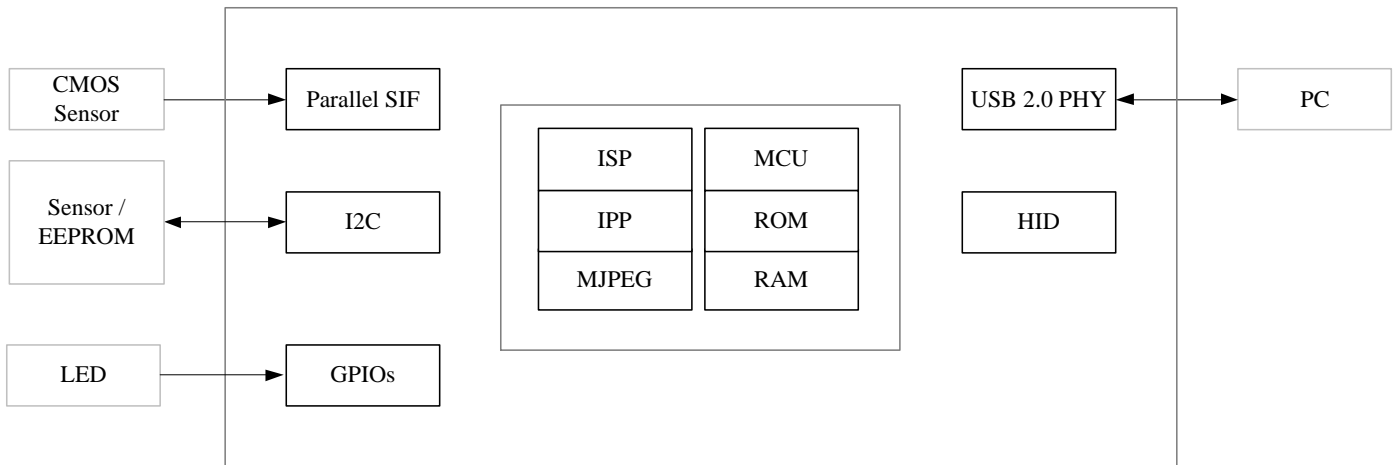| Standard	Resolution	YUY2	MJPEG
VGA	640x480	30fps	60fps
720P	1280x720	10fps	30fps
SXGA	1280x1024	7fps	30fps
UXGA	1600x1200	5fps	15fps
1080P	1920x1080	5fps	15fps

I/O

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

Package Information

Part Number	VC0347TLNA
Package Type	T-QFN 48pins
Size	5 x 7mm

Chip Block Diagram

Application Diagram