# VIMICRO

**VC0349** 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 MJPEG encode engine, VC0349 can support most common CMOS image sensors from VGA to 2Mega 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 64KB 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 2KB SRAM for data Support EEPROM for setting and code

## **Sensor Interface**

Support CMOS Image Sensors Support sensors with YUV/MJPEG output Support MIPI 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

## 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 / HID

#### **Package Information**

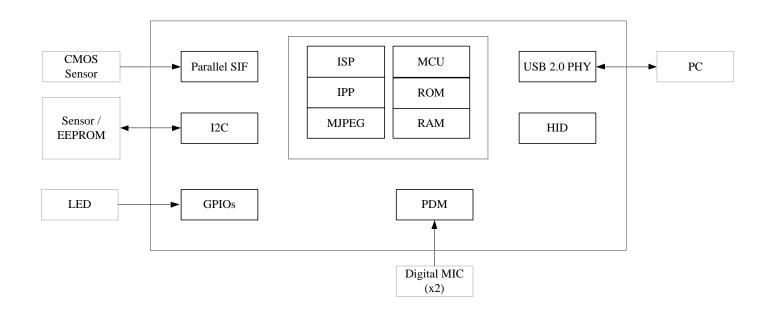
Part Number	VC0349TLMA	
Package Type	T-QFN 48pins	
Size	5 x 7mm	

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USB 2.0 Camera Processor

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# Chip Block Diagram



# **Application Diagram**

