



VC0333/334TLNA USB2.0 PC Camera Processor

Key Features

- USB2.0 PHY compatible with H/S, F/S and USB1.1
- Support USB Video Class (UVC) 1.0
- 48-pin Tiny QFN (6.5mmx5mm)
- Vista Premium Logo compliance
- 30fps@VGA, 15fps@UXGA (JPEG)
- Advanced Software ISP
- Support 2M pixel CMOS sensors
- Built-in OTP ROM (max. size 32K)

processing functions, such as advanced software Image Signal Processing (ISP), high quality image data compression as well as data transfer units such as the USB2.0 PHY device are all built into the chip. These state-of-the-art designs are single-chip solutions that makes the creation of high-speed, high-resolution, low-power, low-cost PC cameras easier than ever before.

Ease of Use

The VC0333/0334TLNA processors are USB Video Class (UVC) 1.0 compatible therefore no drivers needs to be installed before the user can experience first-hand enjoyment of using product built with these powerful processors. VC0333/0334TLNA are also fully compliant with the increased bandwidth of USB2.0 High-Speed (HS) protocol and supports the 480M bps USB2.0 HS transaction.

Advanced Software ISP

VC0333/0334TLNA processors offers users with the choice to either use software ISP or sensor supported ISP for more versatile operations. The software ISP provides added functionalities along with an extra dimension of interaction. These features include special image effects, photo frame (dynamical and still), face tracking and face effects.

Audio Performance (VC0334TLNA Only)

VC0333/0334TLNA are the latest welcoming addition to Vimicro's low cost USB2.0 PC camera processor range. With their small and compact design, VC0333/0334TLNA are designed for both the attachable PC camera and the notebook embedded PC camera markets. VC0333/0334TLNA not only offers cost-effective solutions for enhancing web camera multimedia experiences but also utilizes the most up-to-date technologies.

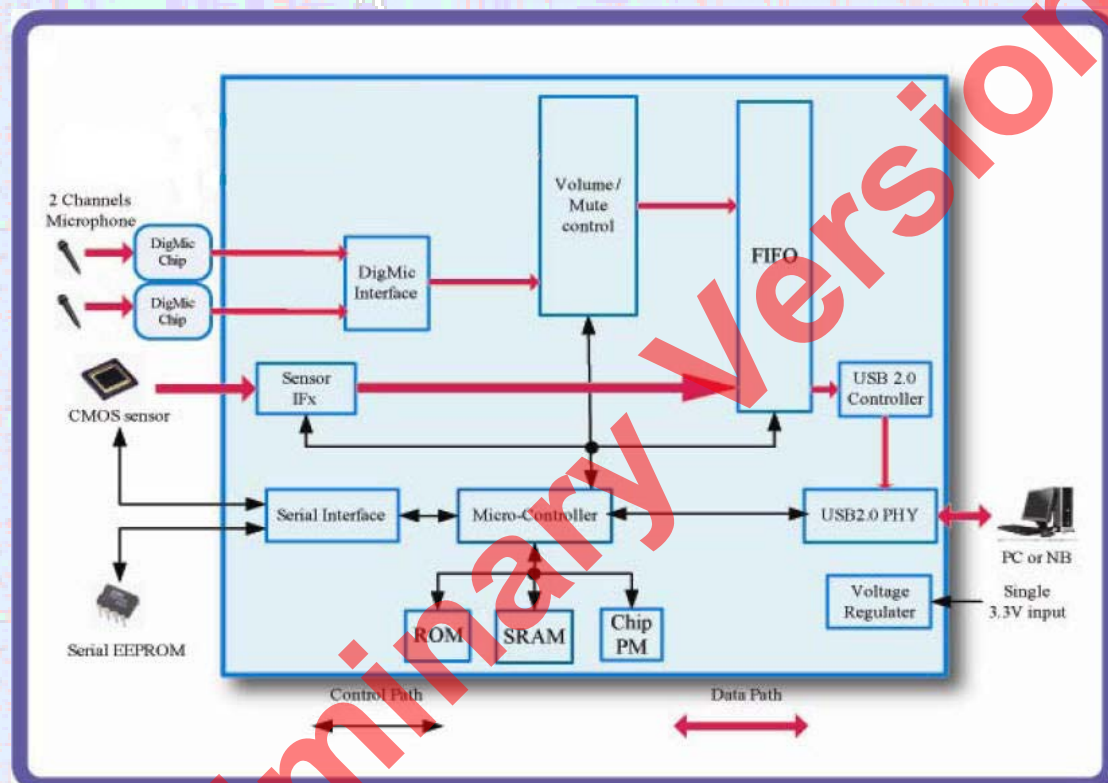
VC0333/0334TLNA offers a consistent excellent performance with both still image and video streaming. All major image



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The audio unit is used to transport audio data from external devices to host PC through USB interface. It gets 1-bit pulse density modulation (PDM) data stream from external digital MIC, and converts it to 16-bit PCM data, after digital volume adjustment, the processed audio data is sent to UDC audio FIFO and then to the host. With the filter driver and the UAA, VC0334TLNA also supports noise cancellation, echo cancellation and audio effect pitch up/down.

VC0334TLNA Chip Block Diagram (same for VC0333 but without audio)



For more details, please visit our website <http://www.vimicro.com/> or contact our world wide sales offices.

Vimicro Corporation is a China-based semiconductor company providing chips and solutions that enable multimedia communication and applications. Vimicro is a market leader in imaging processors for PC and mobile devices. Vimicro is now focused on offering next generation multimedia technologies for PC and mobile phones markets. Our latest multimedia processors will combine all the functionalities of both the imaging/video/graphics and sound/audio/music processors, allowing for future applications such as Multimedia Messaging Services ("MMS"), mobile imaging, mobile ring-tone, mobile music, mobile flash, mobile video and mobile games.

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