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Uart Camera Module with Jpeg compression - C328

The C328 is a compact UART camera module with JPEG compression and VGA sensor, designed for low-power security and PDA applications.

SKU	UPDATED	PRICE
SEN121A2M	2024-08-09 02:14:11	$49.90(Excl. VAT)



Overview



The C328 is a low-cost, low-power camera module integrating an OmniVision VGA color sensor and built-in JPEG CODEC for high-resolution image capture. It features a command-based UART interface at 115.2Kbps, supporting multiple image resolutions and color formats for serial bus security and PDA accessory applications.

Key Features

Description

This item is no longer for sale.

The C328 module is a highly integrated serial camera board that can be attached to a wireless or PDA host performing as a video camera or a JPEG compressed still camera. It provides a serial interface and JPEG compression engine to act as a low cost and low powered camera module for high-resolution serial bus security system or PDA accessory applications.

Features

- Small in size, low cost and low powered (3.3V) camera module for high-resolution serial bus security system or PDA accessory applications.
- On-board EEPROM provides a command-based interface to external host via RS-232.
- UART: 115.2Kbps for transferring JPEG still pictures or 160x128 preview @8bpp with 0.75fps.
- On board OmniVision VGA color sensor.
- Built-in JPEG CODEC for different resolutions.
- Built-in down sampling, clamping and windowing circuits for VGA, QVGA, 160x120 or 80x60 image resolutions.
- Built-in color conversion circuits for 2-bit gray, 4-bir gray, 8-bit gray, 12-bit RGB, 16-bit RGB or standard JPEG preview images.
- No external DRAM required.

System Configuration

1. Camera Sensor

The C328 module uses OmniVision VGA color digital CameraChips with an 8-bit YCbCr interface.

2. OV528 Serial Bridge

The OV528 Serial Bridge is a JPEG CODEC embedded controller chip that can compress and transfer image data from CameraChips to external device. The OV528 takes 8-bit YCbCr 422 progressive video data from an Sensor CameraChip. The camera interface synchronizes with input video data and performs down sampling, clamping and windowing functions with desired resolution, as well as color conversion that is requested by the user through serial bus host commands.

The JPEG CODEC can achieve higher compression ratio and better image quality for various image resolutions.

3. Program EEPROM

A serial type program memory is built-in for C328 to provide a set of user-friendly command interfacing to external host.

Documents

Please visit our **wiki page** for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our **forum**.

Technical Details

Technical details

Resource Links

- https://www.seeedstudio.com/Uart-Camera-Module-with-Jpeg-compression-C328-p-209.html

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