

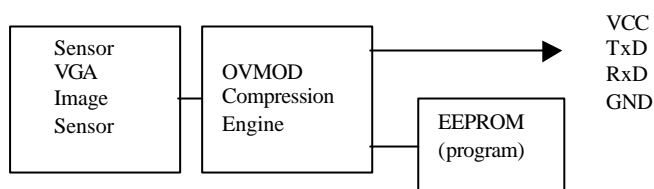
CJPG380

JPEG Compression VGA Camera Module

General Description

The CJPEG380 compression module performs as a video camera or a JPEG compressed still camera and can be attached to a wireless or PDA host. Users can send out a snapshot command from the host in order to capture a full resolution single-frame still picture. The picture is then compressed by the JPEG engine and transferred to the host.

Block Diagram



Features

- Low-cost, & low-powered solution for high resolution image capture
- Built-in down-sampling, clamping and windowing circuits for VGA/CIF/SIF/QCIF/160x128/80x64 image resolutions
- RS-232: 115.2K bps for transferring JPEG still pictures or 160x128 preview @8bpp with 0.75~6 fps
- JPEG CODEC with variable quality settings for different resolutions
- Built-in color conversion circuits for 4 gray/16 gray/256 gray/12-bit RGB/16-bit RGB/Pallet 256 RGB preview images

System Configuration

Camera Sensors

The CJPEG380 uses VGA CameraChips with an 8-bit YCbCr interface.

OVMOD Serial Bridge

The OVMOD Serial Bridge is a controller chip that can transfer image data from CameraChips to external device. The OVMOD takes 8-bit YCbCr 422 progressive video data from a 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.

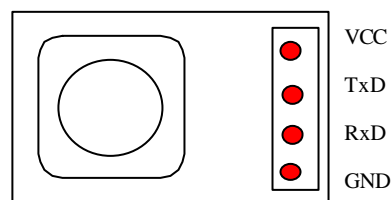
The JPEG CODEC with variable quality settings can achieve higher compression ratio & better image quality for various image resolutions.

Program Memory

A serial type program memory is built-in for CJPEG380, which provides user-friendly commands to interface external control units.

Pin Description

| Pin | Description |
|-----|----------------------|
| VCC | Power 3.3VDC |
| TxD | Data Transmit (3.3V) |
| RxD | Data Receive (3.3V) |
| GND | Power Ground |



Lens : f4.0mm F/No 2.2 with IR Cut filter
Board Size: 28x20mm