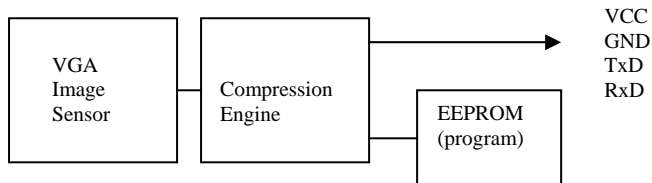


C1098 JPEG Module

General Description

The C1098 JPEG 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

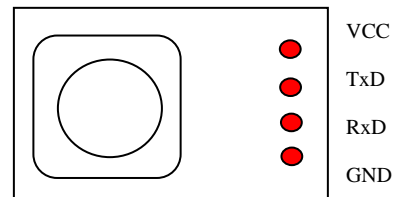


Features

- Small in size, 20x28mm
- VGA resolution, down sample to QVGA
- Low power consumption, 3.3V operation
- UART interface support up to 460.8Kbps
- Built-in JPEG CODEC
- Built in lens, optional
- User friendly command

Pin Description

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



Command Summary

Command	Function
INITIAL	Configure interface speed ,image size
GET PICTURE	Get image from the module
SNAPSHOT	Capture a still image
SET PACKAGE SIZE	Set the package size to transmit data from module to Host
RESET	Reset the whole system
DATA LENGTH	Provide the data length information.
SYNC	Start a synchronization sequence
ACK	Indicate the communication success
NACK	Indicate the communication fail with error code

Electrical Specification

V_{DD} = 3.3V±10%, T_A = 0 to 25°C

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{DD}	DC supply voltage		3.0	3.3	3.6	V
I _o	Operation Current	Operating		60		mA
V _{IH}	High level input voltage	TTL	2.0			V
V _{IL}	Low level input voltage	TTL			0.8	V

Lens Specification

Description	Parameter
Imager Format	1/4"
F/#	2.8 (infinity)
Focal length (mm)	4.0
Field of View Diagonal (deg)	64
Distortion	0.38%
Relative Illumination	>53%
Filter Option IR-cut filter	included

Mechanical information

