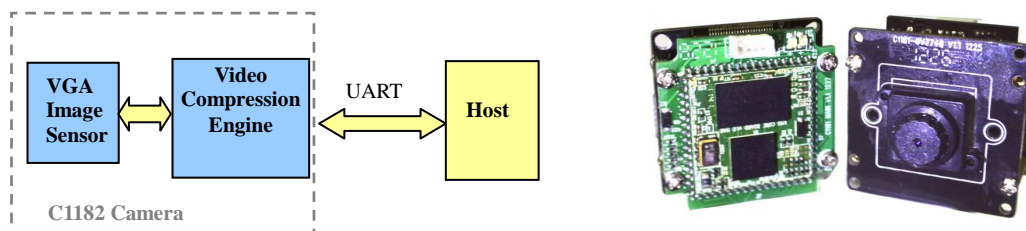


General Description

This is a series of camera modules which perform video compression and output video stream through UART port. It can be attached to a wireless host and performing a remote video camera.



System block diagram

Features

- ✓ Small in size 32x32mm
- ✓ On board VGA color sensor
- ✓ Lens included(option)
- ✓ 3.3V Operation
- ✓ Advance H.264 CODEC provide excellent video at low bit rate
- ✓ Simple and user friendly command
- ✓ Interface to external host via RS-232.
- ✓ UART: 128Kbps max for data transfer
- ✓ Built-in down sampling, clamping and windowing circuits for VGA(640 x480), QVGA(320x240)
- ✓ Power saving mode, power on by RS232 trigger

Pin Description

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

Connector type: 1.25 mm pitch, 4 pin single row

Command Summary

1	INITIAL	To configure the image size, quality, baud rate and packet size
2	DATE	Send from Host the Date info for stamping purpose
3	TIME	Send from Host the Time info for stamping purpose
4	PREVIEW	Command to get video frame data continuously
5	CAPTURE	Command to take a frame for transmission
6	DATA LENGTH	Information about the image data length
7	GET DATA	Get the image data packet from module
8	SYNC	Sync the host to the module
9	POWER CONTROL	Turn off the module, all parameter reset
10	ACK	Command to indicate the communication success
11	NAK	Command to indicate the communication fail with error code

Electrical Characteristics:

	Min	Typ.	Max	Unit
Operation Voltage	3.2	3.3	3.4	V
Standby Current			0.65	mA
Operation	358	365	373	mA
Capture	364	368	375	mA