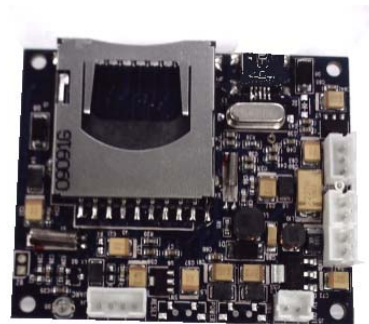


## Introduction

This module has been designed for serial communication. It allows user to control and retrieve the video data from the module remotely by using UART interface.

## Features

- Accept CVBS input, PAL/NTSC
- Manual capture or by Motion detect
- JPEG (720x576)
- AVI up to D1 30fps(25fps pal)
- UART command control and file transmission
- Support SDHC up to 16G
- Detail commands list provided
- 5V operation



## Functional Description

### 1. General

- |                      |                               |
|----------------------|-------------------------------|
| I. Date-Time preset  | III. Preview or playback mode |
| II. TV system select |                               |

### 2. Preview

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| I. Motion detect settings       | A. sequence shot:1-3              |
| A. MD on/off                    | B. Photo quality                  |
| B. MD Sensitivity set           | IV. AVI capture setting           |
| C. MD Timeslot between 1-99 sec | A. duration set 1-99 sec          |
| II. Manual capture              | B. display size set               |
| III. JPEG snap shot setting     | C. frame rate set 1-30(25 in pal) |

### 3. Playback

- |                         |   |
|-------------------------|---|
| I. previous / next file | V. delete file / folder                       |
| II. file name and size  | VI. format SD card                            |
| III. set current file   | VII. AVI playing option (play / pause / stop) |
| IV. upload a file       |   |

## Module Specification

Storage	External SD card up to 16GB
Display Connector	Composite video out
Video Capture	720 x 576 (up to 30fps)
Photo Resolution	720 x 576 JPEG format
UART Baud Rate	115200 bps
Video Input	Composite video 1V p-p
Board size	50 x 60 mm

## Electrical Characteristics (at 5VDC)

Condition	Min.	Typ.	Max.	Units
Preview	210	215	220	mA
CaptureJPG(Peak @ capturing)	215	220	230	mA
CaptureAVI(Peak@ recording)	220	226	235	mA
Playback JPG	204	206	208	mA
Playback AVI	216	220	228	mA

**File system and File Name Format**

1. Max 9999 images can be saved in the SD card. It depends on the size of SD card and images/video captured.
2. File Name format: 0000.xxx to 9999.xxx (xxx is JPG or AVI)  
E.g. 0123.jpg, 0124.AVI

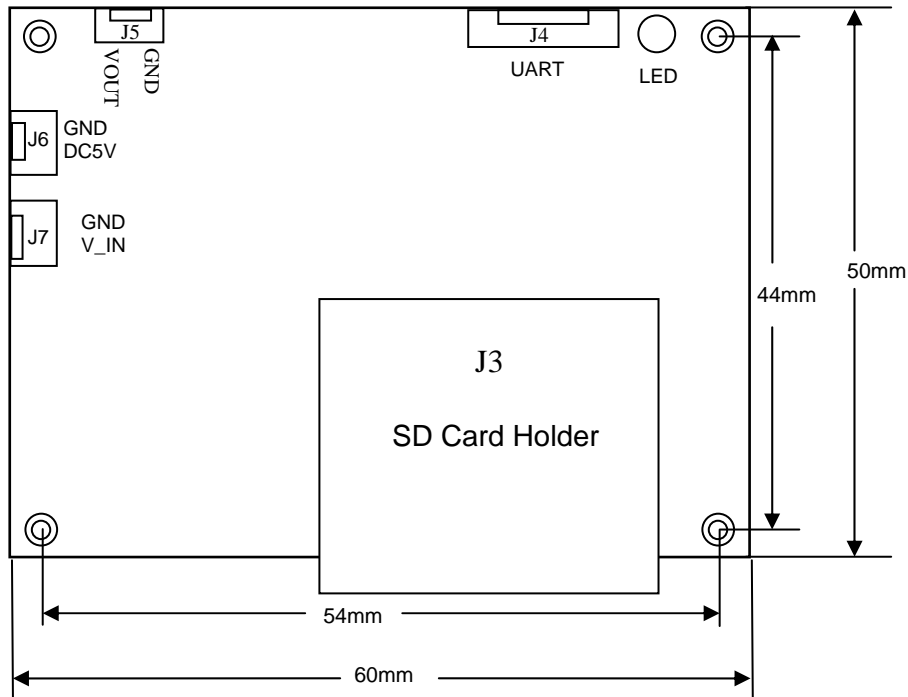
**Connectors and their description**

Board Measurement: 50x60mm

Connector Description

J3	SD card holder
J4	UART port
J5	Video Output for TV monitor
J6	5V DC
J7	Video input

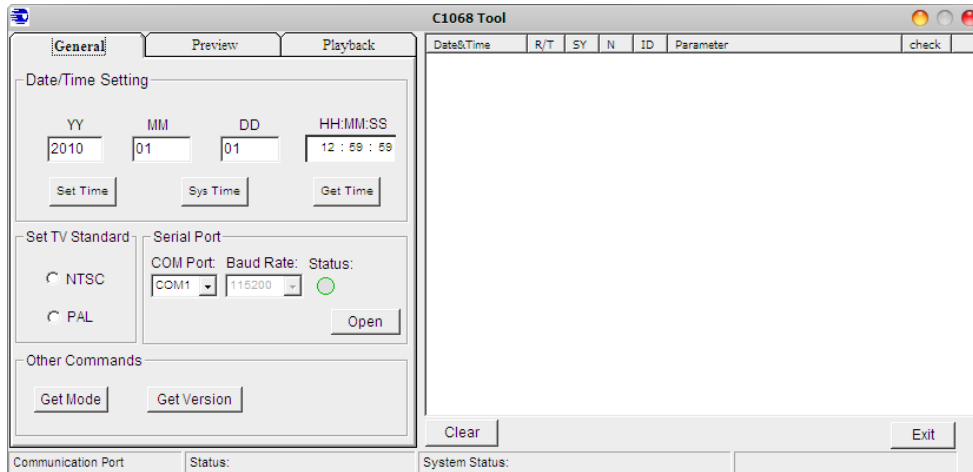
**Board Dimension**



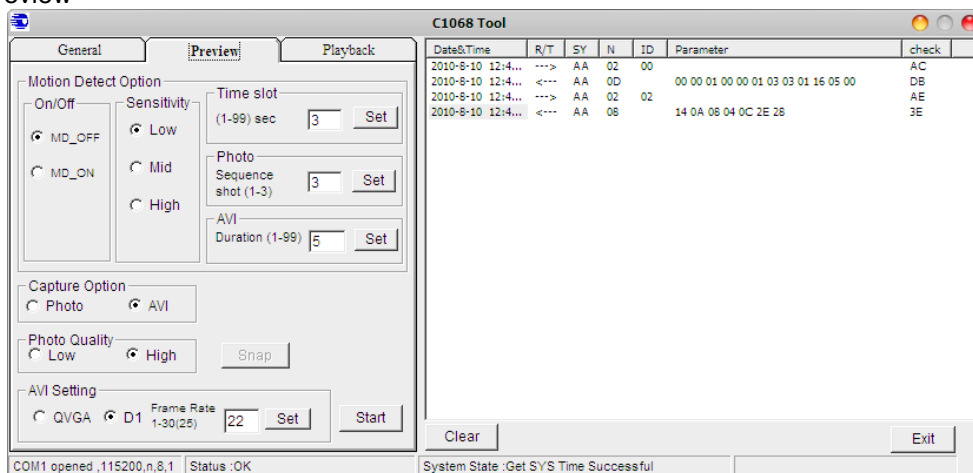
**Evaluation Kit and PC demo U/I**

In order to help user to understand the control of the module using UART communication, we have developed the U/I for PC application, showing all the dialogs between PC and module. The U/I has been divided to 3 parts, general setup, preview and playback, refer to the following screen shots.

**Part I: General**



**Part II: Preview**



**Part III: Playback**

