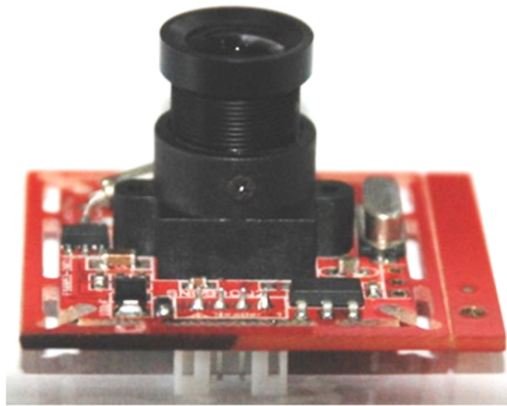


SC03MPB

Spinel 300K Pixels Serial JPEG Color Camera Module

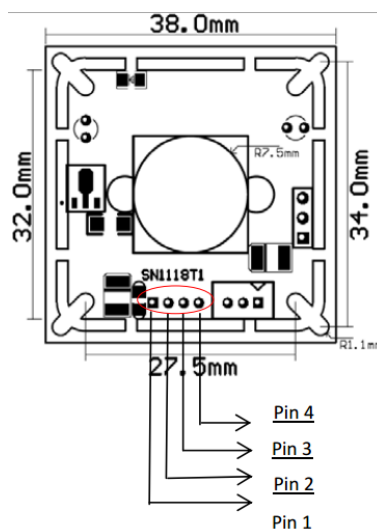


Spinel SC03MPB Camera is a highly integrated serial JPEG camera module which can be attached to any host system that requires a JPEG compressed still camera for embedded imaging applications. The module uses an Omni Vision CMOS OV7725 color image sensor along with a JPEG compression chip that provides a low cost and low powered camera system. The module has an on-board serial interface (TTL/RS232/RS485) that is suitable for a direct connection to any host microcontroller UART or a PC system COM port.

The SC03MPB camera is capable of outputting **JPEG format images and/or NTSC/PAL video per request.**

The SC03MPB camera module comes in a compact form factor with a built in lens and a 4 pin PH 1.5 socket connector that provides easy access to both power and serial data. PC test tool is provided for easy testing.

Below is the layout of the camera module (unit in mm).



Pin definition: Pin 1: VCC, Pin 2: RX, Pin 3: TX, Pin 4: GND

For more information relating to serial cameras, please email us at info@spinelectronics.com
Or call us at 800-837-5859; or visit our Website: www.spinelectronics.com

SC03MPB Features

300K Pixels resolution

ZMID protocol or VC0706 protocol

Fully customizable

| Specifications | |
|---------------------------|--|
| Image Device | 1/4" CMOS OV7725 |
| Serial Output | TTL/RS232/RS485 |
| Pixels | 300K Pixels |
| Image Resolution | 640 x480 (VGA), 320 x 240 (QVGA), 160x120 |
| Image Compression | JPEG |
| Video Output | Available upon request for custom orders |
| Baud Rate | 115200bps (Default), 2400/9600/14400/19200/57600/38400bps optional |
| Focal Length | 3.6 mm (default), 2.0mm/2.8mm/6.0mm/ 8.0mm/12mm/16mm available |
| Angel of View | 90° (Default), 150°/120°/60°/ 45°/30°/15° available |
| Minimum Illumination | 1 LUX |
| IR Illuminator | Default with no IR illumination, custom options of 12/24/36pcs 850nm/940nm IR LED Plate |
| IR-Cut filter (IR filter) | Default at 850nm, custom options at 650nm or 940nm |
| IR-Cut filter Switcher | Not available |
| Power Supply | 5V DC (default), custom option wide voltage 9-36V DC |
| Current Consumption | Typical: 75mA, Max: 150mA (when LED's are on) |
| Night Image | Black and white |
| Night Vision Range | 5 meters (16.4ft) |
| Protocol | Default ZMID protocol, VC0706 optional |
| Exposure | Auto |
| White Balance | Auto |
| Auto Gain Control | Auto |
| Cable Length | 20CM (7.8in) 4 pin wires (Default), other length per request |
| Pin Configuration | Pin 1: VCC, Pin 2: RX, Pin 3: TX, Pin 4: GND |
| Connector | Default 4 bare wires, other connectors can be customized per request |
| Waterproof | Subject to the housing/enclosure |

| Environmental | |
|--------------------------|---|
| Operating Temp. | -4°F~158°F (-20°C~+70°C) |
| Storage Temp. | -13°F~176°F (-25°C~+80°C) |
| Dimension in Millimeters | 32mm (L) x 32mm (W)/ 38mm (L) x 38mm (W) |
| Dimension in inches | 1.26 Inch (L) x 1.26 inch (W)/ 1.50 Inch (L) x 1.50 inch (W) |
| Weight | Approx. 12Grams or 0.4 oz |

For more information relating to serial cameras, please email us at info@spinelectronics.com
Or call us at 800-837-5859; or visit our Website: www.spinelectronics.com