

# SC30MPA

## Spinel 3.0MP Serial JPEG Color Camera Module

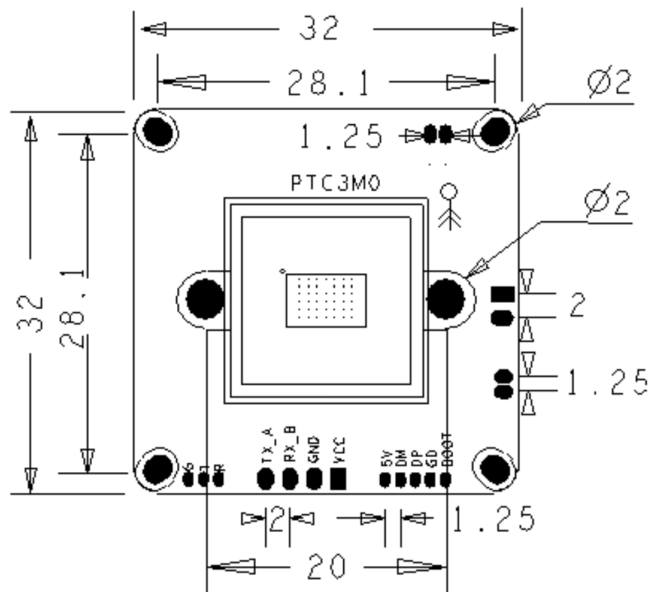


Spinel SC30MPa Camera is a highly integrated serial JPEG camera module which can be attached to any host system that requires a JPEG compressed still camera for embedded imaging applications. The module uses a 1/2.8" CMOS color image sensor along with a DSP chip that provides a low cost and low powered 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 SC30MPA camera is capable of outputting JPEG format images only.

The SC30MPA camera module comes in a compact form factor with a built in lens and a 4 pin PH 2.0 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 board (unit in mm).



For more information relating to serial cameras, please contact us: [info@spinelelectronics.com](mailto:info@spinelelectronics.com)  
Or by phone at 800-837-5859; or visit our Website: [www.spinelelectronics.com](http://www.spinelelectronics.com)

## SC30MPA Features

**3.0MP resolution, 2304x1296 pixels**

**VC0706 protocol compatible**

**High baud rate up to 921600bps for TTL, and up to 230400bps for RS232**

## Specifications

Image Device	1/2.8" CMOS
Serial Output	TTL/RS232/RS485
Pixels	3.0 Mega Pixels
Image Resolution	2304x1296(Default), 1920x1080, 1600x1200, 1280x960, 1280 x 720, 1024x768, 640 x480, 320 x 240, 160x120
Image Format	JPEG
Baud Rate	115200bps (Default, <b>Max for RS485</b> ), options 9600/19200/38400/57600/ <b>230400 (Max. for RS232)/921600bps (Max. for TTL)</b>
Focal Length	3.6 mm (default), 2.1mm/2.4mm/2.8mm/6.0mm/ 8.0mm/12mm/16mm/25mm available
Angel of View	90° (Default), 150°/120°/60°/45°/30°/15° available
Min Illumination	0.01 LUX
<b>WDR</b>	<b>85DB</b>
IR Illuminator	Default with no IR illumination, custom options of 10pcs, 850nm IR or white light LED Plate
IR-Cut filter	Default at 650nm, custom options at 850nm or None
IR-Cut filter Switch	Default not available, can be equipped upon request
Power Supply	Wide voltage 4.2V-18V, typical 5V DC
Current	Typical: 125mA @5V, Max: 300mA (w/ LED's on)
Consumption	145mA@4.2V,75mA@9V,65mA@12V,55mA@15V,45mA@18V
Night Image	Black and white
Night Vision Range	Max. 10 meters (33ft)
Protocol	VC0706 compatible
Exposure	Auto
White Balance	Controllable through command
Brightness	Controllable through command
Cable Length	20CM (7.8in) 4 pin wires (Default), other upon request
Pin Configuration	TX/A, RX/B, GND, 5V
Connector	Default 4 bare wires, other connectors upon request
Waterproof	Subject to the housing/enclosure

## Environmental

Operating Temp.	-4°F~140°F (-20°C~+60°C)
Storage Temp.	-22°F~158°F (-30°C~+70°C)
Dimension in Millimeters	32mm (L) x 32mm (W) x 25mm (H)
Dimension in inches	1.26 Inch (L) x 1.26 inch (W) x 0.98 inch (H)
Weight	Approx. 9 Grams or 0.3 oz

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