# USBCAM OnSemi 5M/8M
## 5M/8M USB3 Camera



**Drivable general purpose LEDs (code 50, 51, 52)**

**M12, C/CS mount compatible**

**Thermal sensor (optional)**

**IR filter switcher (optional)**

**Integrated LEDs flashing**

**I2C connector for external board (optional)**

**USB3**
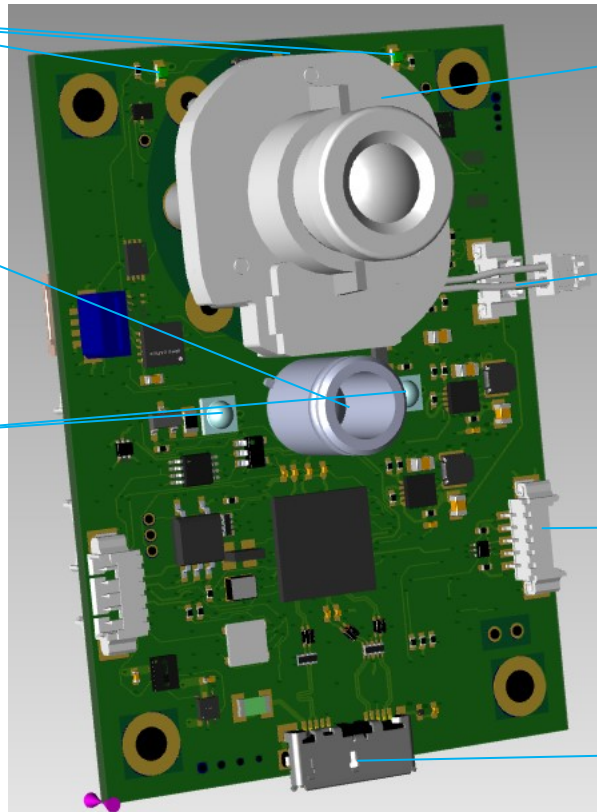


**Autofocus (m3F)**

**From top to bottom:**
**GND**
**GPI0 (code 25)**
**GPO0 (code 44)**

**From top to bottom:**
**GND**
**GPO1 (code 24)**
**GPI1 (code 17)**
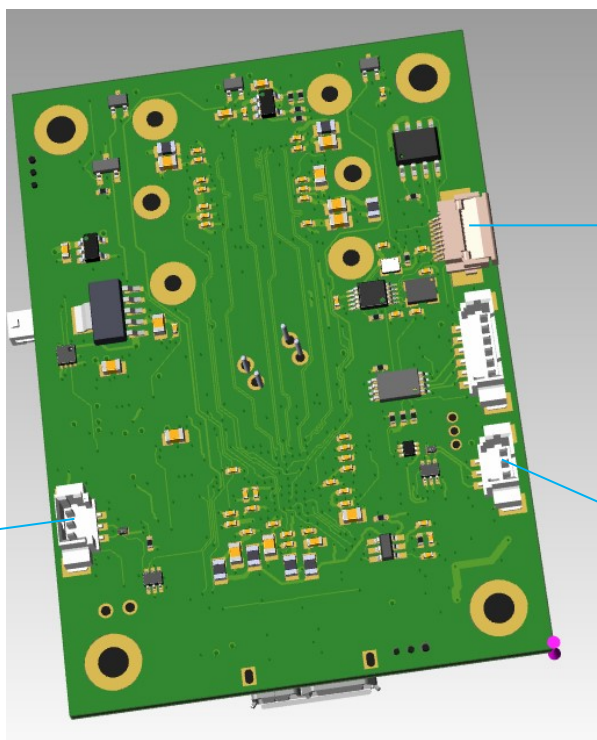
## Specifications

| | |
|---|---|
| **Dimensions** | 50 x 70 mm |
| **Weight** | max 30g |
| **Operating temperature** | 0 to +70°C |
| **Power consumption (USB, 5V)** | max 600mW |
| **Current drawn** | max 120mA |
| **CMOS** | AR0521: 5M (2592x1944), 1/2.5", 2.2 x 2.2 µm, 12bits |
| | AR0820: 8M (3840x2160), 1/2", 2.1 x 2.1 µm, 12bits |
| **Data rate** | up to 2.4 Gbit/s |
| **Drivers** | Windows 8.1 / 10 and Linux (V4L2) fully compatible drivers |
| **Mount** | M12 (default), C/CS (optional) |
| **GPIO** | 2 inputs and 2 outputs |

## Power supply

| | |
|---|---|
| **USB3** | 4.75 to 5.25V |

## Interface

| | |
|---|---|
| **Image processing** | Fully configurable Cynove custom software smart ISP for increased output quality |
| **API** | API as a DLL library to acquire pictures and change camera settings. Delivered with a sample code. |
| **API Tester** | User interface (Windows only) to test and show camera capabilities to your client |

## Features

| | |
|---|---|
| **Unique ID** | Each board has its own non alterable unique ID |
| **Triggers** | Can be synchronized on a trigger or generate a trigger, for multiple cameras synchronization |
| **Autofocus** | Board is compatible with most autofocus availbable |
| **Filter switcher (optional)** | Optional driveable mount for switching between a 2 filters set, daylight and night mode |
| **Thermal sensor (optional)** | Thermal sensor (32x24) available for further control of the temperature of the scene |
| **Custom board (large volume orders only)** | Custom board designed to your own dimensions and specifications can be manufactured |
| **Sustainability** | Long term |