



This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip. It is ideal for applications requiring a small footprint, low power and low cost. mCam703U has been designed to interface C8203E processing board which provide DVI output thru HDMI connector.

Features:

- Tip size 3.8 OD x 8mm
- Resolution: HD1280x720 pixels
- Operation voltage 2.8V, 1.8V
- MIPI interface
- Built in LED x2pcs
- Low power consumption
- Cable size: 1.5mm OD
- Cable length: 1M (up to 4M)

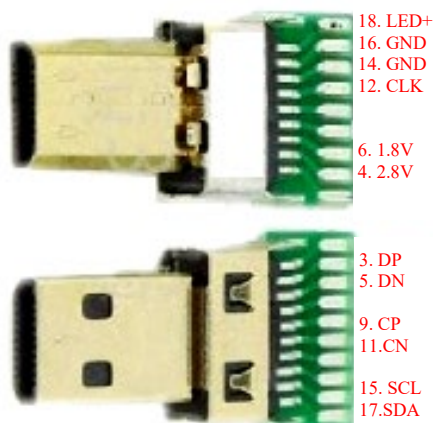


Specification

Imager	CMOS imager sensor OV9734
Clock rate	24MHz
Max exposure	798 x T _{row}
Video Output	MIPI
Scan mode	Progressive, max 30fps
Data format	10bit Raw RGB
Picture Element	1280x768pixel
Pixel size	1.4x1.4um
Effective image area	1819.58x1033.34um
S/N Ratio	36.4dB
Dynamic range	68.4dB@16x gain
Operation Voltage	2.8V, 1.8VDC
Power consumption	69mW
Cable	2p + 1C coaxial + 5C wire, OD1.8+/-1mm
Connection	Micro HDMI connector
Tip Dimension	OD3.8mm, L=8mm
Lens specification	FOV: 108deg @full resolution F/N: 4.0
Working distance	5mm~10mm

Pin Description

1.	NC	
2.	NC	
3.	DP	MIPI Data Positive o/p
4.	VDD	2.8VDC
5.	DN	MIPI Data Negative o/p
6.	EVDD	1.8VDC
7.	NC	
8.	NC	
9.	CP	MIPI clock Positive o/p
10.	NC	
11.	CN	MIPI clock Negative o/p
12.	CLK	Clock input
13.	NC	
14.	GND	Ground
15.	SCL	I2C clock
16.	GND	Ground
17.	SDA	I2C data
18.	LED	Power for LED



System Block Diagram

For C8203E with HD output

