

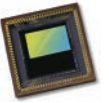
Applications

- Security and Surveillance

Product Features

- support for image sizes:
 - HD 720p (1280x720)
 - WVGA (752x480)
- support for output formats: YUV and separated and combined RAW
- low power consumption
- parallel DVP interface
- high sensitivity
- automatic exposure/gain
- horizontal and vertical windowing capability
- auto white balance control
- aperture/gamma correction
- serial camera control bus (SCCB) for register programming
- external frame sync capability
- 50/60 Hz flicker cancellation
- defective pixel correction

OV10633



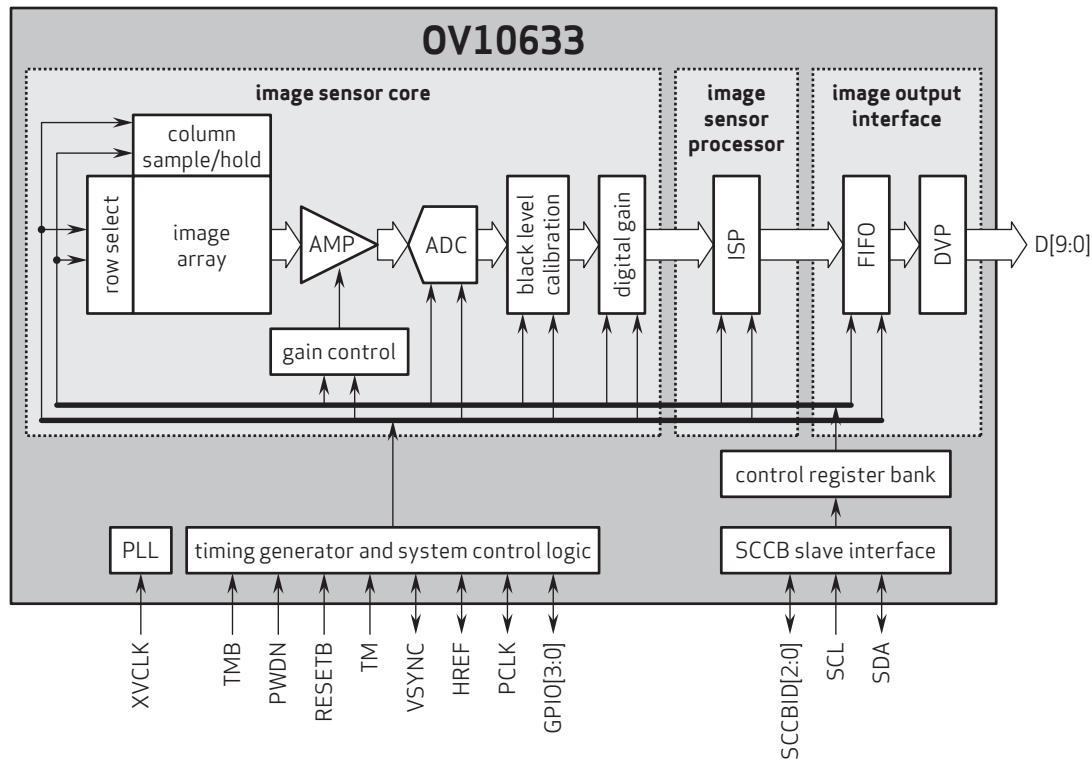
Ordering Information

- OV10633-C96A-1H (color, lead-free)
96-pin CLGA

Technical Specifications

- active array size: 1280 x 720
- maximum image transfer rate:
30 fps full resolution
- power supply:
 - core: 1.6 - 1.7V
 - analog: 3.14 - 3.47V
 - I/O: 1.7 - 3.47V
- power requirements:
 - active: 532 mW typical @ 3.3V AVDD, 1.65V DVDD, and 1.8V DOVDD
 - standby: 480 μ W typical @ 3.3 AVDD, 1.65V DVDD, and 1.8V DOVDD
- temperature range:
 - operating: -20°C to +85°C junction temperature
 - stable image: 0°C to +50°C junction temperature
- output interfaces: 10-bit parallel DVP
- output formats: up to 18-bit combined RAW, separated 10-bit RAW, 8-/10-bit YUV 422
- lens size: 1/3"
- lens chief ray angle: 9°
- scan mode: progressive
- shutter: rolling shutter
- pixel size: 4.2 μ m x 4.2 μ m
- image area: 5510.4 μ m x 3418.8 μ m

Functional Block Diagram



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