

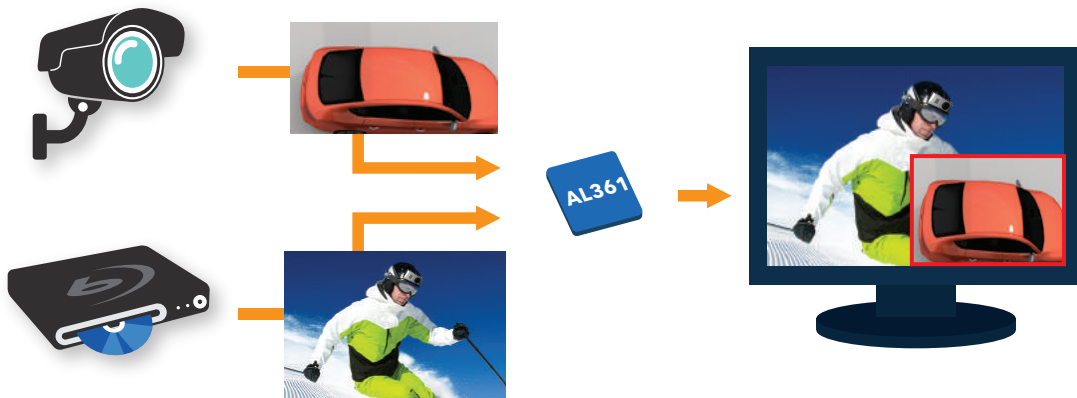
## UHD 4K2K双核视频处理器

凌泰科技发表的AL361 是一个高度集成的一颗视频处理芯片，它支持多路的数字视频输入与输出接口，视频内核可以处理画面迭加，制式转换以及放大缩小等功能。

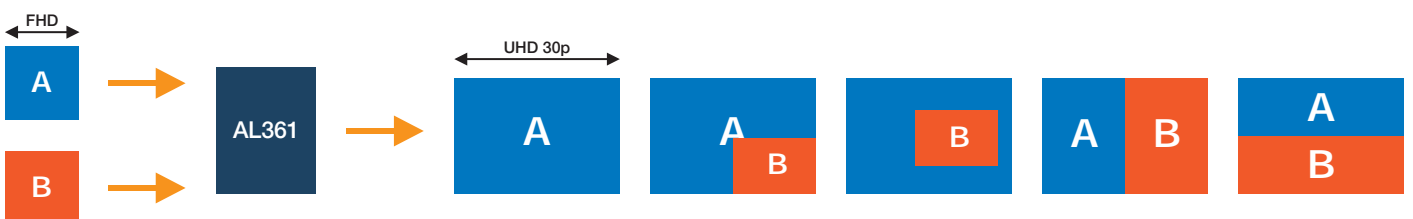
AL361是一个高性价比的视频处理芯片，专为视频转换以及多种输入、输出转换而设计，好的视频转换质量，高度集成小封装，提供您简易开发、快速量产的最好选择。

## 功能

- **高度集成**  
集成了MCU 8051、低功耗DDR以及Flash 于1.2 CM x 1.2 CM LFBGA 封装。
- **丰富的视频输入输出接口**  
双核的视频处理能力，可以处理标清、高清及超高清视频，同时支持制式转换例如RGB转YC或YC 转RGB。
- **视频处理能力**  
隔行转逐行、制式转换、画面裁切、画面缩小及放大、画中画以及子母画面4K2K 显示。

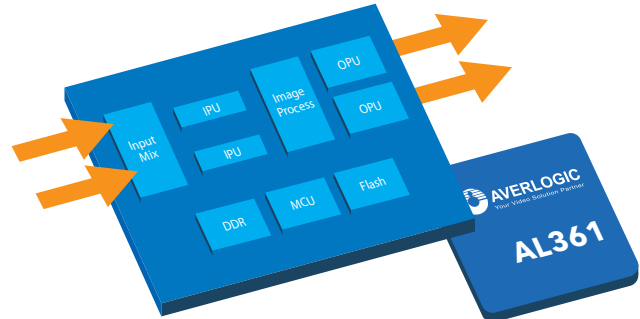


## 显示



## 应用

- 高清、标清视频转换。
- 多路输入及输出视频处理。
- 视频制式转换及画面迭加处理。



## 规格

- **Video Input**
  - 24-bit RGB/YUV (444)
  - Dual 16-bit BT.1120 (422)
  - Dual 8-bit BT.656 D1
  - Supports 24-bit RGB/YUV (444) image input for OSD bitmap overlay
  - Supports data clock rate up to 150Mhz or DDR (Double Data Rate) sample at rising and falling edges
- **Video Output**
  - Dual 24-bit RGB/YUV (444)
  - Dual 16-bit BT.1120 (422)
  - Supports data clock rate up to 150Mhz and 300Mhz for 4K2K output
- **Video Processing and Scaling**
  - Supports window composition/ overlaying , PIP-window, POP-window, and flexible scale up/down for up-to-date display technology design, such as 4K2K application
  - Video scaling engine (scale up/down) up to 1080 60p or doubling 1080p to 4K2K 30p
  - Video processing engine supports varieties of video manipulating operations, such as de-interlacing, time base conversion, cropping, rotation, mirroring, Image freeze
- **OSD**
  - Supports character (font), Icon-base and 2-layer 8-bit Bitmap OSD overlay
  - Supports 24-bit bitmap OSD direct download via video input port
- **MCU & Flash Interfaces**
  - Supports embedded 8051 MCU
  - Embedded Serial flash memory provides storage for boot up program. External SPI download is possible
- **Miscellaneous**
  - 1.8V core logic & 1.8V - 3.3V I/O
  - Embedded Low Power DDR-SDRAM and 8051MCU
  - Small-size package LFBGA-249 12x12 mm

## Contact Details

[www.averlogic.com](http://www.averlogic.com)  
[sales@averlogic.com](mailto:sales@averlogic.com)