

## Video Enhancement Processor

### Part Number: AL260

#### YUV Video Input / RGB Progressive Output

- ITU-656/601, 8/16-bit YUV 4:2:2 video inputs
- Progressive (Non-interlaced) RGB/YPbPr 24-bit digital output up to SXGA (1280x1024)

#### Video De-interlacing & Scaling

- Film inverse 3:2&2:2 pull down and Motion Adaptive De-interlacing with Spatial and Temporal Filtering
- Frame Rate Conversion (FRC) from 50Hz up to 120 Hz
- Independent V/H scale up and down supported

#### On-Screen-Display (OSD) & Video Control

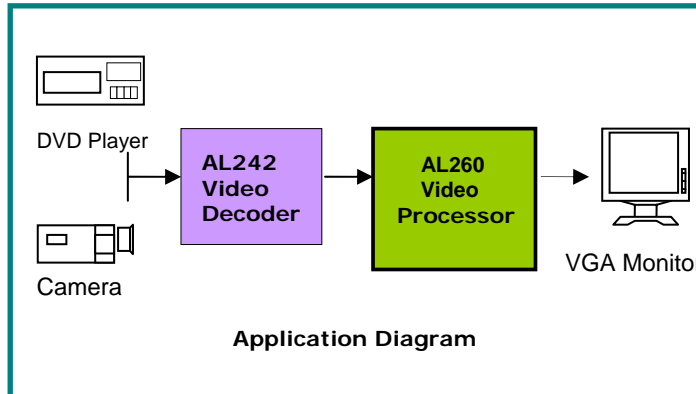
- Dual internal OSD windows with alpha blending
- Bitmap RAM mode OSD, external font ROM supported
- Video Sharpness, contrast, Brightness control
- Frame Freeze, video mirror manipulation
- Built-in Look-up Table for Gamma Correction

#### Parallel & Serial Bus

- Supports 2-wire serial and proprietary 8-bit parallel bus interface programming

#### Ordering Information

Part No.	Package	Power
AL260C-PBF	208-PQFP	+2.5V/3.3V



### Part Number: AL260C-EVB-A4

- Converts interlaced video input for non-interlaced (progressive) analog RGB/digital RGB output up to 1280x1024 resolution
- Accepts NTSC/PAL/SECAM Composite, S-video or Component video input
- Analog RGB direct to Monitor and TTL digital RGB for digital flat panel output
- Auto-detect input video standard
- Film Detection with inversed 3:2/2:2 pull down and advanced motion adaptive de-interlacing
- AverLogic Proprietary scaling algorithm for scaling up and down
- Built-in OSD RAM and external OSD font ROM supported

## 2D-Comb Video Decoder

### Part Number: AL242

#### 4 analog Video Input / 8-bit YCbCr 4:2:2 Output

- Decodes NTSC/PAL/SECAM composite, S-Video or component video input
- Four analog inputs, standard ITU656 YCbCr 4:2:2 format (8/16bit) digital output
- Supports digital automatic gain control (AGC)
- Supports all variation of the NTSC and PAL standard – (I,B,G,H,D,N,M & combination N)
- Hardwire pins control of channel switching

#### Decoding & Timing Control

- Adaptive 2D-comb filter for NTSC&PAL Y/C separation
- Line-locked system clock frequencies
- Decodes weak and noisy off-air signals
- Superior frequency response preserves fine details
- Auto detect and locks VCR trick modes

#### Brightness & Color Control / Filtering

- Brightness/ Contrast/ Saturation (BSC) and Hue control

#### VBI, Macrovision & Serial bus

- Multi-standard VBI decode support
- Detects & Decodes Macrovision signal
- Two-wire serial bus programming; up to 4 serial bus sub-addresses selectable

#### Ordering Information

Part No.	Package	Power
AL242C-LF-PBF	64-LQFP	+1.8/3.3V