

## Keystone Correction Device

IP00C783

*NEW PRODUCT*

The IP00C783 is a high-speed image processing device for horizontal and vertical keystone correction. This type of processing is one of the important functions of front projectors. Both the input and output are 10-bit RGB and can be easily integrated in a 1080p/WUXGA scaler circuitry.

### Main Features

- Input: RGB 30-bit (1 pixel/clock) @ 162MHz
- Output: RGB 30-bit (1 pixel/clock) @ 162 MHz
- Vertical & Horizontal Keystone correction processing
- Keystone correction up to 30 deg.
- Horizontal & Vertical nonlinear down scaling
- Max image size: 4096 pixels (sync.), 2048 pixels (active), 1200 lines
- Interpolation Filter: 6 symbols with programmable FIR filter (Vertical/Horizontal)
- Distortion correction function
- Edge blending
- Pin-cushion correction (warping)
- Cursor display function
- Image memory bus: 32-bit width DDR-SDRAM (128M 32-bit bus x 1)
- Memory interface frequency 166MHz x 2
- CPU Interface: 4 line serial
- Power supply: 3.3V / 2.5V / 1.8V
- Package: 324-pin BGA, 19mm x19mm, 1mm pitch

### Block Diagram

