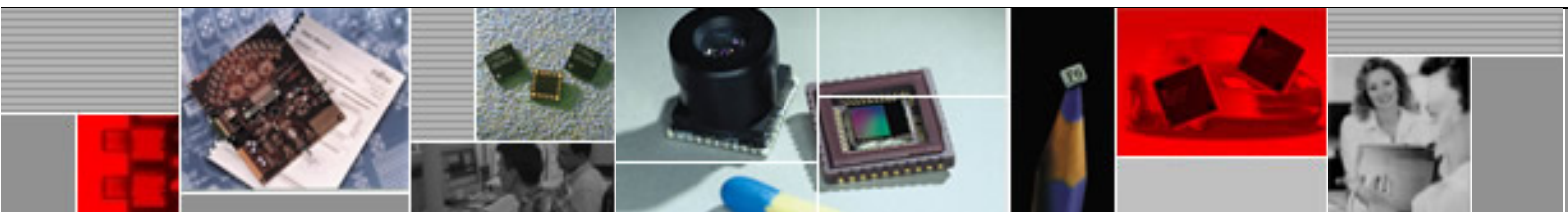


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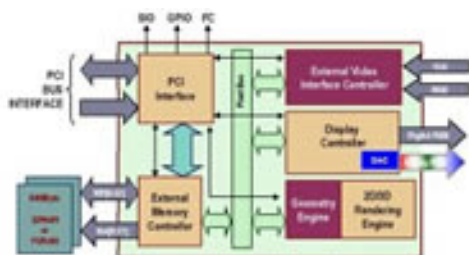
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**MB86295 'CORAL P'**

**DESCRIPTION**



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Coral P is a further enhanced version of Coral B which has a PCI host interface and a new video input controller. Any CPU with a 32-bit PCI V2.1-compliant host interface can be directly connected to Coral P. The device includes both master and slave functions and an internal DMA controller for multi-burst transfers of large quantities of data between all combinations of PCI data space and Coral internal areas. Additional functions provided by the host interface are general purpose IO pins and a serial interface. The external video input of Coral P accepts data conforming to the standards RBT-ITU656, RBT-ITU601, RGB666 and RGB888. This allows video signals of various sources to be displayed together with generated graphics. The video input is capable of accepting TV tuner, DVD player or camera signals in PAL or NTSC video formats. In addition, rendered graphics from any other display controller can be used as video input source.

The video stream is read, modified and written to a video buffer memory completely independently from the display scanning process. Video pictures of diverse resolution and frame frequency rate, in either progressive or interlaced modes, are able to be grabbed, scaled and displayed picture-in-picture. As Coral B, Coral P integrates a new video input up-scaling facility, which now allows to display a full-screen mode of multimedia pictures at large resolutions. Both up-scaling and down-scaling can be set independently in horizontal and vertical directions in pixel or line resolutions.

A set of general IO pins and a serial interface are also included for simple external resource control.

## KEY FEATURES

- CMOS 0.18 $\mu$ m technology
- Display resolutions up to 1024x768
- 6 layers of overlay display (windows)
- Alpha Plane
- Digital Video input (various formats)
- Video Scaler (up/down scaling)
- I2C interface
- Geometry processor
- RGB digital output (8bit x 3)
- RGB analog output
- Includes various kinds of 2D/3D graphic acceleration functions
- Built-in alpha blending, anti-aliasing and chroma-keying
- External SDRAM or FCRAM interface @ 133MHz for up to 64MB graphic memory
- PCI 32-bit V2.1 host interface
- GPIO inputs/outputs
- Serial interface
- Supply voltage 3.3V (I/O), 1.8V (Internal)

- BGA-256 Package
- Temperature range -40..+85 °C

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