

PINEA

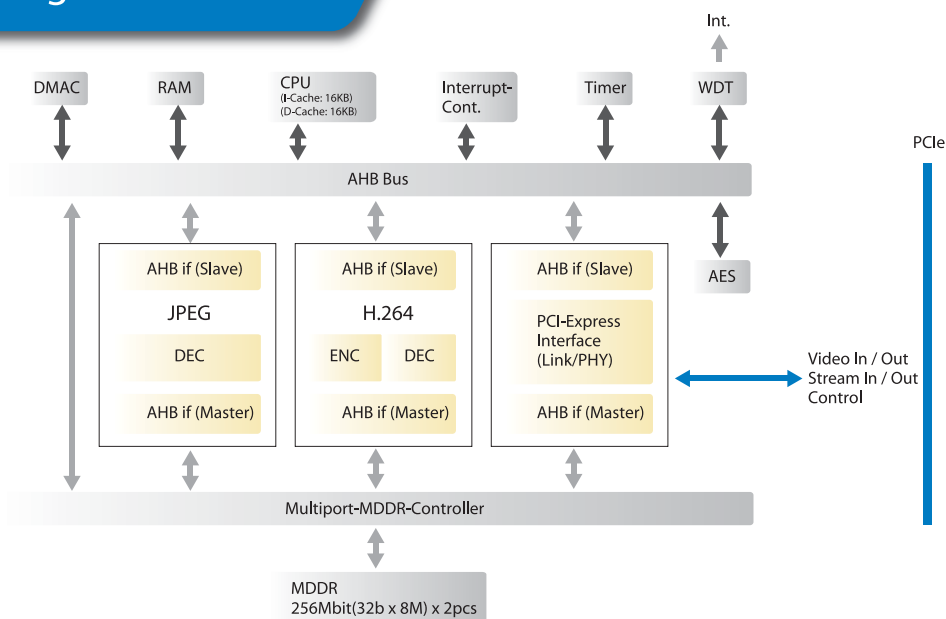
PCI-Express Interface H.264 Codec and JPEG to H.264 transcoder

PINEA is an H.264 video codec LSI featuring a PCI interface and high-speed YUV file processing, and is targeted specifically at PC-installed applications.

- All video I/Os and stream I/Os are exchanged through PINEA' s PCI interface and the PC.
- A single HD stream can be encoded or a single SD can be encoded at 5x normal speed. Motion JPEG transcoding to H.264 is supported.
- Device drivers for Windows and Linux are provided.
- The LSI is provided in a SiP containing DDR memories, which results in easier and cheaper design of a printed circuit board.

All of these features make PINEA an excellent solution for video editing systems, video servers and surveillance systems.

PINEA Block Diagram



Specifications

Compression technology	H.264 Encoder: BP/MP/HP 2.1~4.1 Decoder: BP/MP/HP 1~4.1 Motion JPEG Decoder: 1280x1024 30fps
Video input	PCIe (YUV422)
Video output	PCIe (YUV422)
Stream input/output	PCIe (Video ES)
Encryption	AES-128
Host interface	PCIe
Power supply	Core 1.0V, IO TTL / LVCMOS
Power consumption	1.0W (typical)
Package	15mmx15mm, BGA / SiP
External memories	Embedded 256M Mobile-DDR SDRAM x2

**PINEA
Module**