

MSB – Multi-Media Storage Box

is positioned as a digital data storage with imaging, audio and video playback/record capabilities

- **Media / Data Enclosure box**
- **Subset of DVR (Digital Video Recorder)**
- **Image / Video playback**

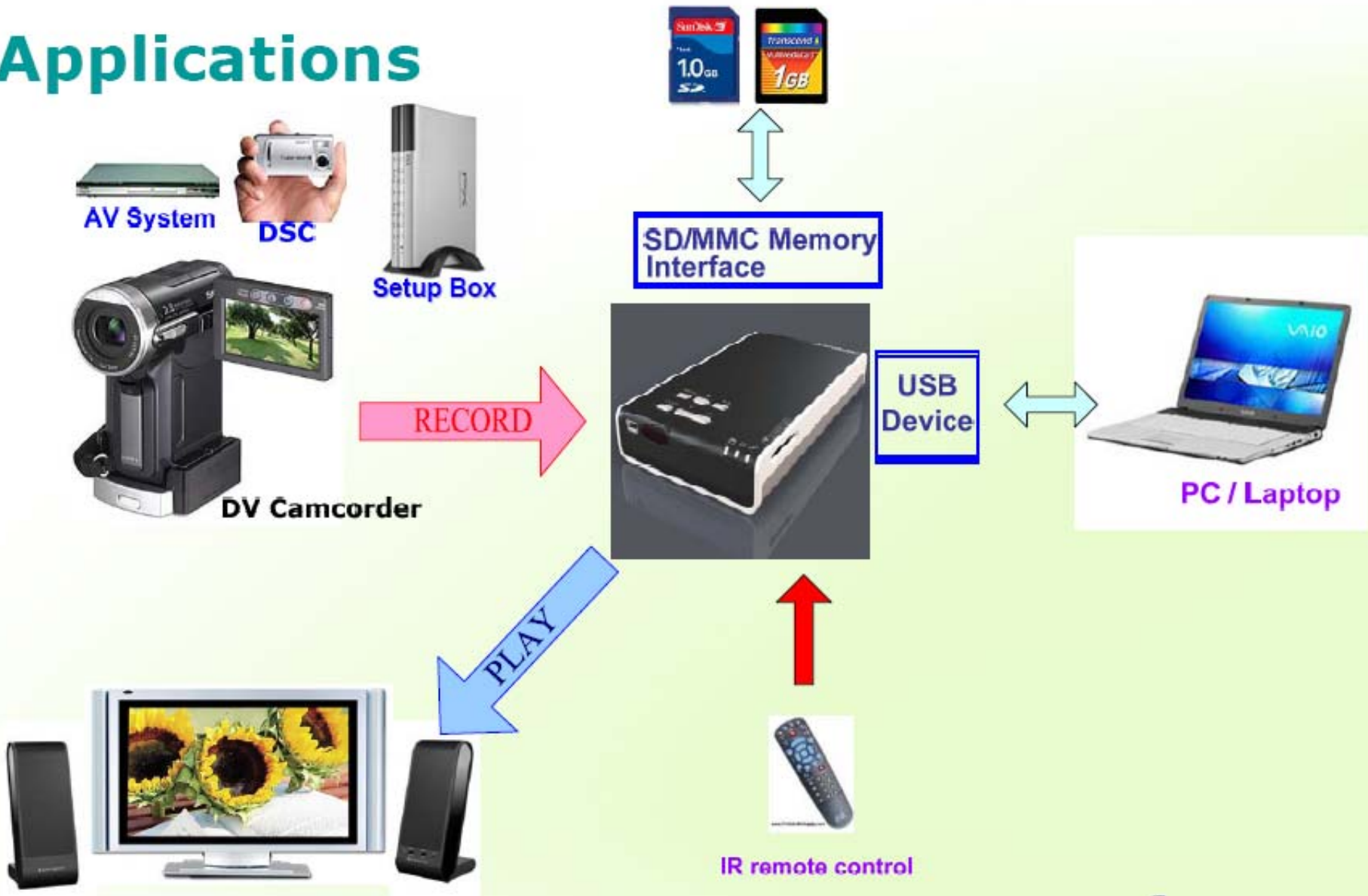
Why MSB

- Connect with your PC to be HDD based enclosure box
- Plug in your existing SD/MMC storage device to be photo viewer
- Simply video formats converter without PC requirement

Function Block

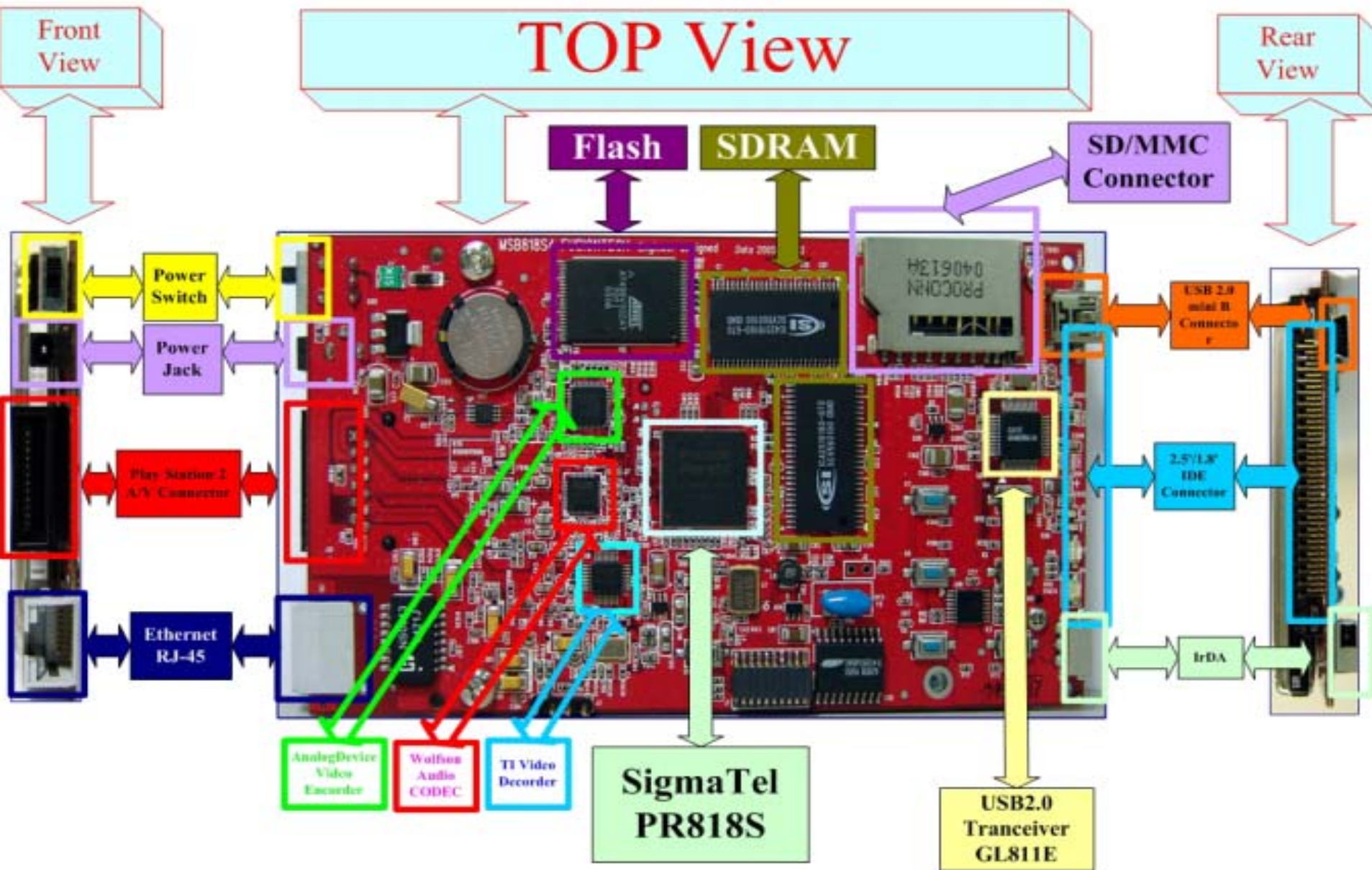


Applications



PCBA Block Diagram -

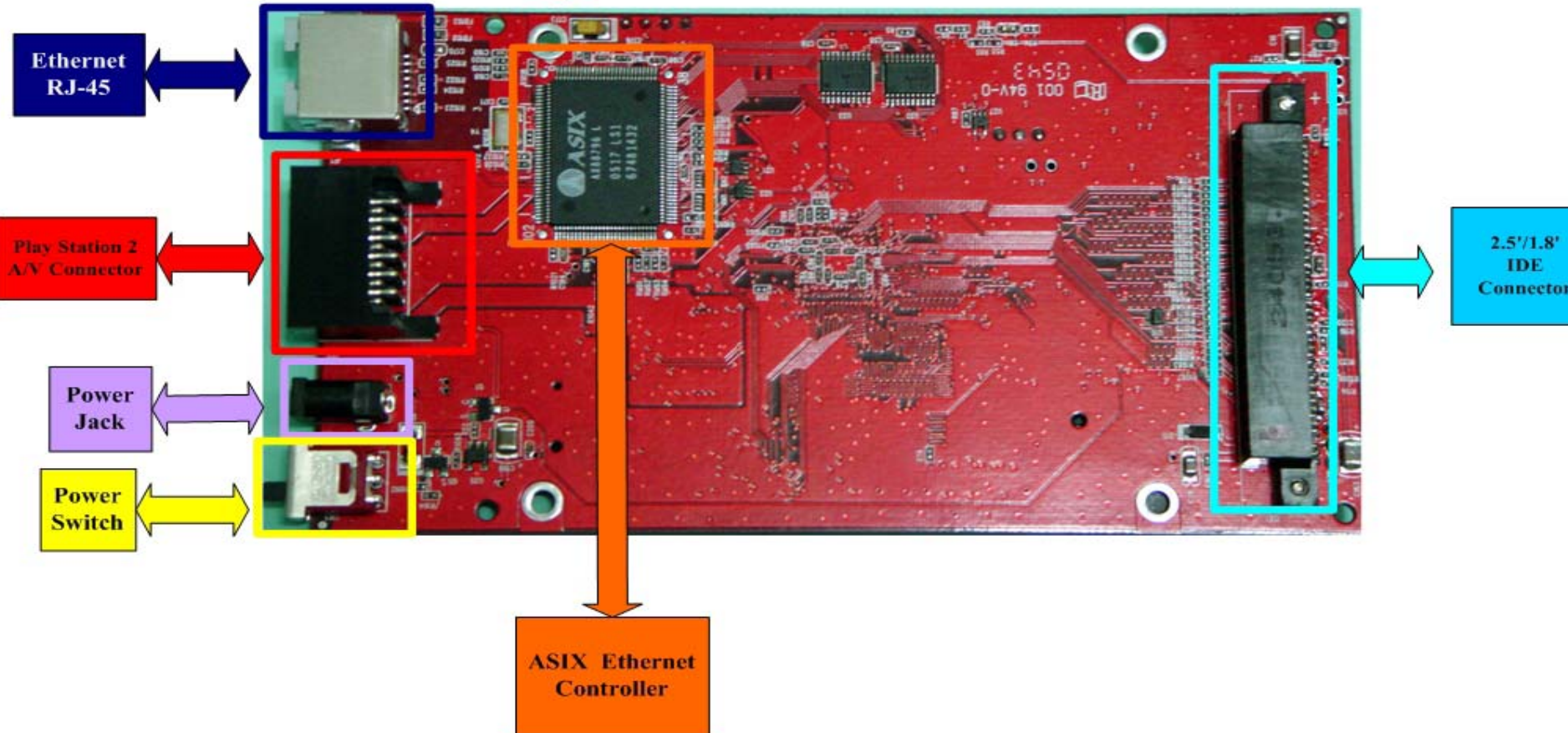
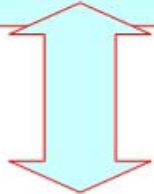
(1/3)



PCBA Block Diagram -

(2/3)

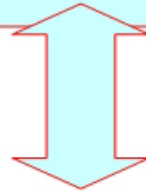
Bottom View



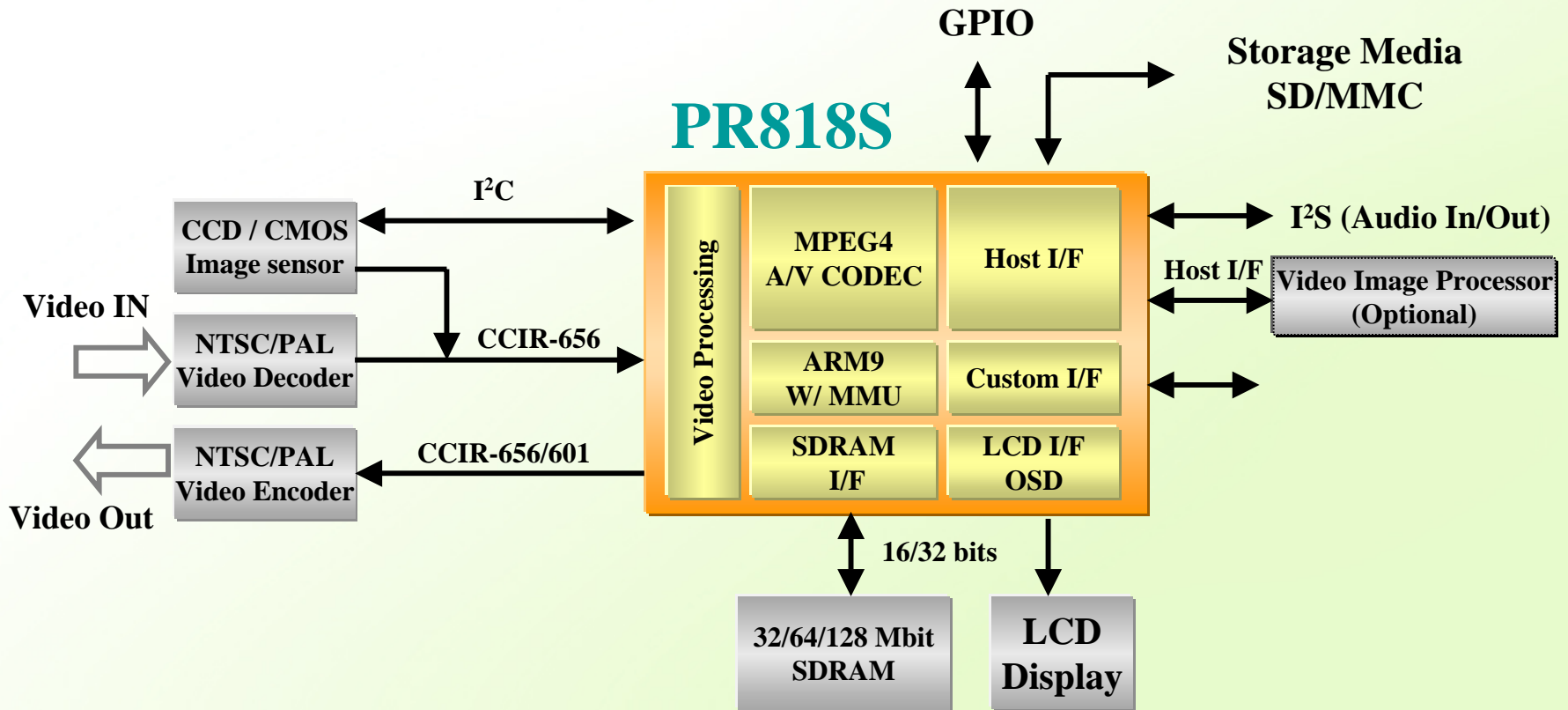
PCBA Block Diagram -

(3/3)

Bottom View (With HD)



System Block Diagram



What we have in MSB

- **USB storage functions**
 - USB 2.0 Device mode as a typical enclosure
- **Photo viewer**
 - JPEG format up to 16M pixel
 - Photo view control with next, previous, rotate Clockwise and Slideshow

What we have in Video Converter Box

- **Video recording**

- MPEG-4 ASP and stereo sound, optimized resolution for TV up to D1 (720 * 480) @ 30 f/s, in AVI format

What we have in Video Converter Box

- **Video playback**
 - MPEG-1 (*.mpg, *.dat)
 - MPEG-2 (*.mpg)
 - MPEG-4 (*.avi)
 - DivX / Xvid (*.avi)
- **Audio playback**
 - MP3
 - ADPCM

What we have in Video Converter Box

- **Video/Audio Output Interface**
 - NTSC/PAL (720:480/720:576)
Composite Video
 - Stereo Audio

- **Power supply**
 - AC adapter

MP4 Video converter box solution -- BOM Cost estimation

- MP4 codec SOC : USD \$20.00
- Audio Codec : USD \$ 2.0
- Linear flash/SDRAM: USD9.50
- Video codec: USD5.50
- USB2.0 : USD1.20
- Others (passive, connector, PCB, cable...): USD8.50
- Power adapter: USD2.00

**Total BOM: US\$49.00 for basic function (reference only & w/o
labor cost for assembly)**

