This audio/video system is designed to support any kind of imaging application. Used as evaluation module or as audio/video component on a motherboard, it allows prototyping of final systems and reduces time to market.

**Main Benefits**

- Ready to operate
- Flexibility
- Performance
- Analog or digital I/Os
- FPGA + DSP customization
- Application examples
- Supports DSP-BIOS II
- TI eXpressDSP compliant

**The Imaging Evaluation Kit includes**

- Hardware module (used as stand-alone or daughter board)
- Software development kit (foundation software)
- Video compression application
- Code Composer Studio (evaluation version)
- Video compression algorithms (evaluation version)

**Demonstration**

- DSP evaluation
- Algo evaluation
- Development tools
- Imaging application
- OEM

ATEME products can be customized to your system requirements
The kit helps you cut the time to market from the early stages of your project:

1. choosing the right solution without designing a dedicated hardware (DSP & software performances)

2. prototyping the final system with all the features

3. designing the firmware in parallel of the final hardware development

4. integrating imaging hardware in your system.

This kit can be used either as an evaluation module or as part of an end user application system (see below).

**Analog I/Os**
- Video inputs: composite / PAL, NTSC / YUV 4:2:2 / A.G.C. / Scaling / Teletext
- Video output: composite / PAL, NTSC / YUV 4:2:2 / On screen display
- Audio input/output: line level (700mV RMS) / voice band (300Hz-4KHz) / PCM (A-law or µ-law) or ADPCM (16, 32 or 64 Kb/s)

**Signal processing**
- DSP TMS320C6211-150 TI / 16 MB local SDRAM / 512 KB Flash

**Pre-processing**
- FPGA 1K30 ALTERA / 1K50 option / Downloaded by DSP or motherboard
- 32KB DPRAM (helpful for pixel arrangement, pixel format conversion)
- Video memory: 8 MB SDRAM, local to the FPGA

**External links**
- 2 DSP bidirectional serial links in RS422 and TTL levels (high speed data)
- 1 RS232 bidirectional serial link: up to 460 Kbits/s (host control)
- 1 8-bits parallel bus (or 16 TTL I/Os: can be a digital camera input)