

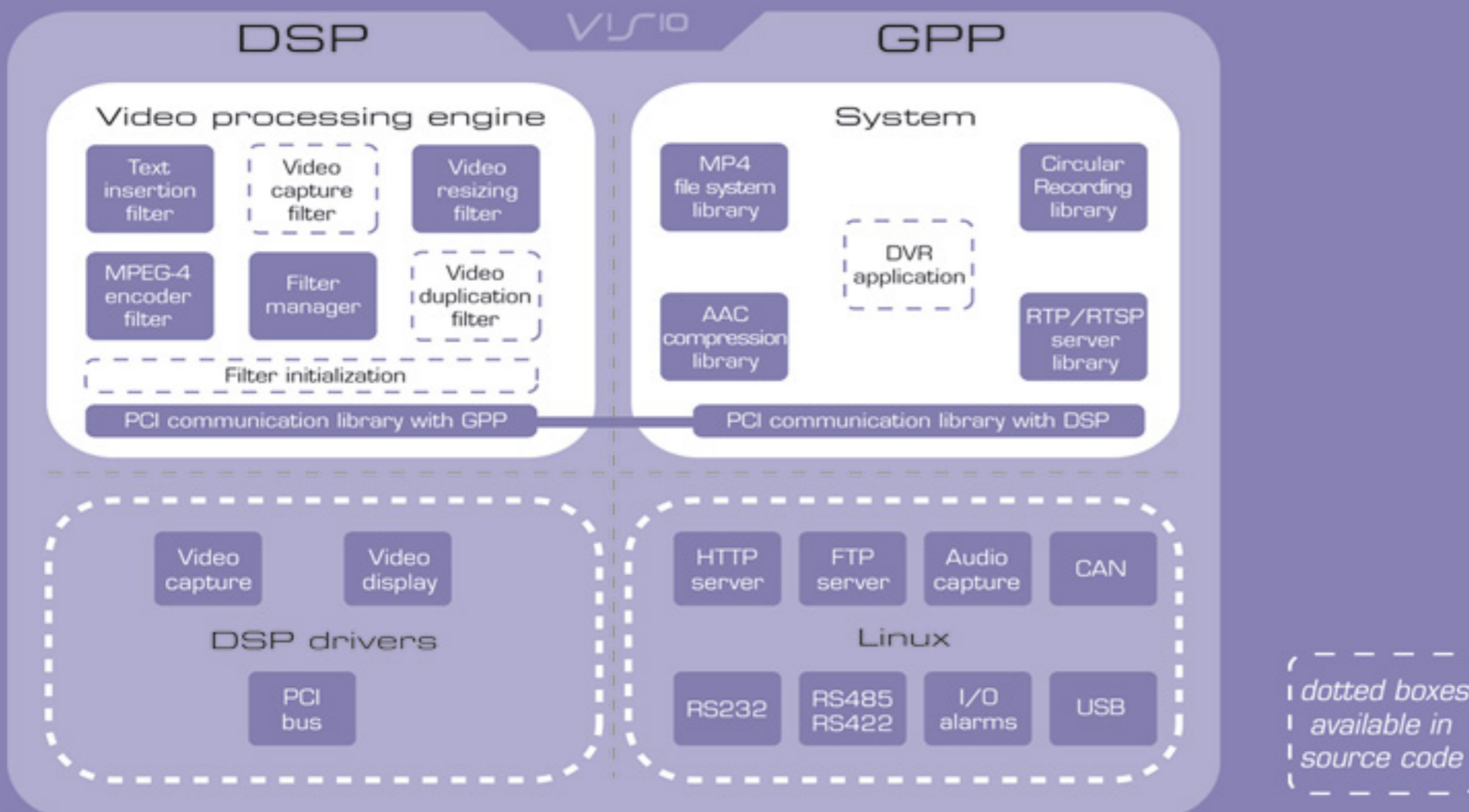


[IP encoder & recorder reference design]



Key features

- ▶ Full frame rate video processing (120 fps @ CIF resolution)
- ▶ MPEG-4 ASP video compression
- ▶ AAC audio compression
- ▶ RTP/RTSP uni/multicast streaming
- ▶ MP4 file recording
- ▶ Instant playback over IP
- ▶ Easy configuration of all parameters
- ▶ Web-based remote control



Two reference designs in one (H/W & S/W)

Hardware

- ▶ Modular and flexible hardware
- ▶ Ready-to-use for compact stand-alone and euro-card standard rack equipments
- ▶ Processing board based on a bi-processor architecture (GPP + DSP)
- ▶ I/O board designed to support 4 video channels streaming applications

Software

- ▶ Complete set of drivers for both processors and all peripherals
- ▶ Linux distribution running on the GPP with development tool
- ▶ Complete DVR application*
- ▶ High performance of ATEME's MPEG-4 software codec
- ▶ GPP application opened to customization

* delivered with GPP source code / libraries and DSP executable

Technical benefits

- Ready-to-use hardware
- Modular architecture
- Ready-to-use software
- High video/audio quality
- Linux OS
- Application and drivers in source code

Market benefits

- One stop shop solution
- Fast track to market
- Risk management
- Ease of development
- Versatile platform
- Differentiation enabler



Security

- Traffic control
- Transportation
- Urban surveillance
- Airports
- Banks
- Casinos
- Industry
- Buildings
- Police & Defence

Multimedia

- Corporate TV
- Interactive video forums
- Video learning
- Video medicine



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Hardware

Metal case ^[1]

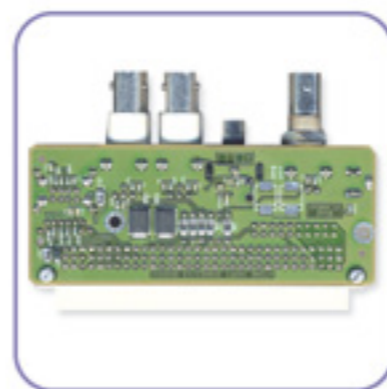
- ▶ Dim: 248 x 175 x 52 mm (9.76" x 6.89" x 2")
- ▶ Power supply: 12 V

Bi-processor processing board ^[2]

- ▶ 1 GPP (Freescale MPC5200 PowerPC @ 400 MHz)
- ▶ 1 DSP (Texas Instruments DM642 @ 600 MHz)
- ▶ SDRAM 16MB (DSP) + 64 MB (GPP)
- ▶ Flash (32 MB + 128KB nand)
- ▶ IDE / UDMA port
- ▶ 2 debug interfaces (DSP-JTAG + GPP-BDI)
- ▶ Dim: 100 x 70 mm

Rear panel ^[3]

- ▶ 4/1 analog video inputs/output (BNC)
- ▶ 1/1 analog audio mono input/output (RCA)
- ▶ 10/100 BaseT Ethernet (RJ45)
- ▶ USB 1.1 Host
- ▶ 1 RS 232 + 1 RS 485/422
- ▶ 4/1 isolated inputs/output (dry-contact)
- ▶ 12 V power plug
- ▶ Dim: 100 x 40 mm



[3]

Front panel ^[4]

- ▶ 3 leds
- ▶ 5 command buttons
- ▶ 1 infra-red sensor
- ▶ Dim: 170 x 20 mm

I/Os board ^[5]

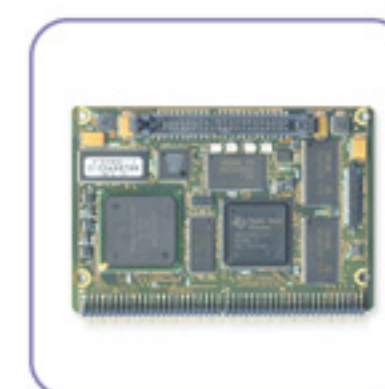
- ▶ CAN bus
- ▶ CCD sensor connection
- ▶ Dim: 100 x 90 mm

30 GB HDD ^[6]

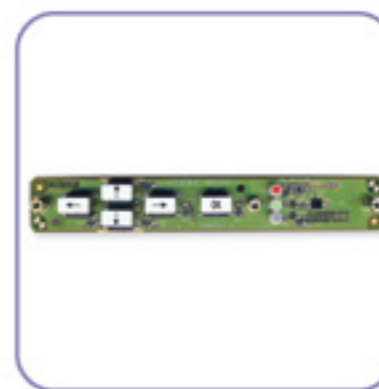
- ▶ Dim: 100 x 70 x 8 mm (2,5")



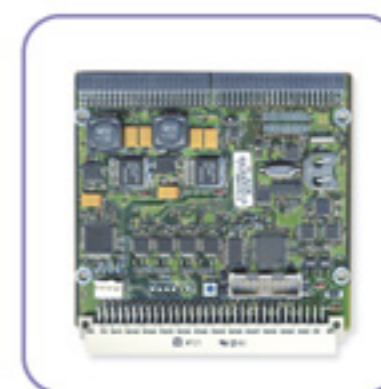
[1]



[2]



[4]



[5]



[6]

Software

Low level drivers

- ▶ GPP board support package in source code
- ▶ DSP board support library in source code
- ▶ GPP boot loader
- ▶ Complete documentation

Linux OS

- ▶ Linux kernel
- ▶ Linux distribution customized by ATEME (in source code)
- ▶ Linux development tools
- ▶ Complete documentation

Codecs & Libraries

- ▶ MPEG-4 ASP, AAC, RTP server, ...

Application software

- ▶ Complete DVR application
- ▶ Source code and libraries on GPP side + doc

Support & Tools

Technical support and warranty

- ▶ Software: 3 months
- ▶ Hardware: 12 months

On-demand custom design

- ▶ Custom hardware and software design at fixed cost
- ▶ Integration of partner's software bricks (baggage detection, intrusion detection, vehicle detection, people counting, PTZ, ...)

Options

- ▶ JTAG PCI emulator (ATEME's aDICE710)
- ▶ DSP application source code
- ▶ Orcad schematic source files

Technical trainings

- ▶ On customer's site



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