# xelmo

Munkbrogatan 2  SE-11127 Stockholm
+46 8 588 399 00  www.xelmo.com

PRODUCT BRIEF

## AXALON Video Broadcast Platform

The broadcast platform targets HD/3G  and emerging 4K and 3D technologies. Combining a CPU, an FPGA carrier board and a choice of  FMC IO daughter cards, this dynamic platform offers both processing muscle and IO flexibility. The platforms functionality is further increased by a form factor which allows two units to sit inside a single 1U 19" rack mount.

Just add your core functionality and you're ready for production!

### KEY FEATURES

- Arria II GX FPGA with high speed transceivers capable of 3G SDI
- Com Express or Qseven computer-on-module interface be able to support a range from Intel Atom to Intel i7
- Flexible I/O configuration using FMC I/O modules
- Memory structure suitable for video applications, regarding amount, latency and number of memory banks.
- Designed to fit 1U 19" rack units
- FPGA IP for memory controllers, PCIe for communication with the CPU, and support for the FMC modules
- Linux driver support for the COM's

### APPLICATIONS

- Video encoding / decoding (H.264/MPEG 4, JPEG2000, MPEG2 etc.)
- Trans coding and multiplexing
- Video Over IP / IP TV
- SD/HD/3G/4K standards conversion
- Scaling and Deinterlacing
- Colour space / Up / Down conversion
- Real time editing and special effects
- Video keying
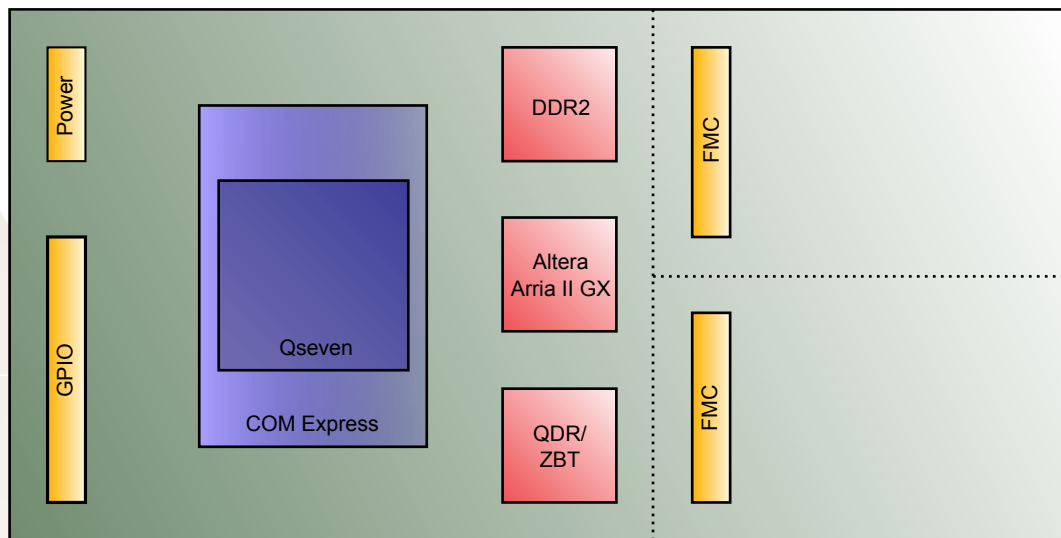- Broadcast monitoring / test and measurement
- Image processing

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### FUNCTIONAL OVERVIEW



The carrier board with a connector for a COM Express or a Qseven CPU module and two FMC connectors for I/O modules. An Arria II GX FPGA, together with DDR2 and QDR/ZBT memories, is also shown.

### CONTACT INFORMATION

Xelmo AB
Munkbrogatan 2
SE-11127  Stockholm
SWEDEN

Phone: +46 8 588 399 00

Email: info@xelmo.com

Web: http://www.xelmo.com