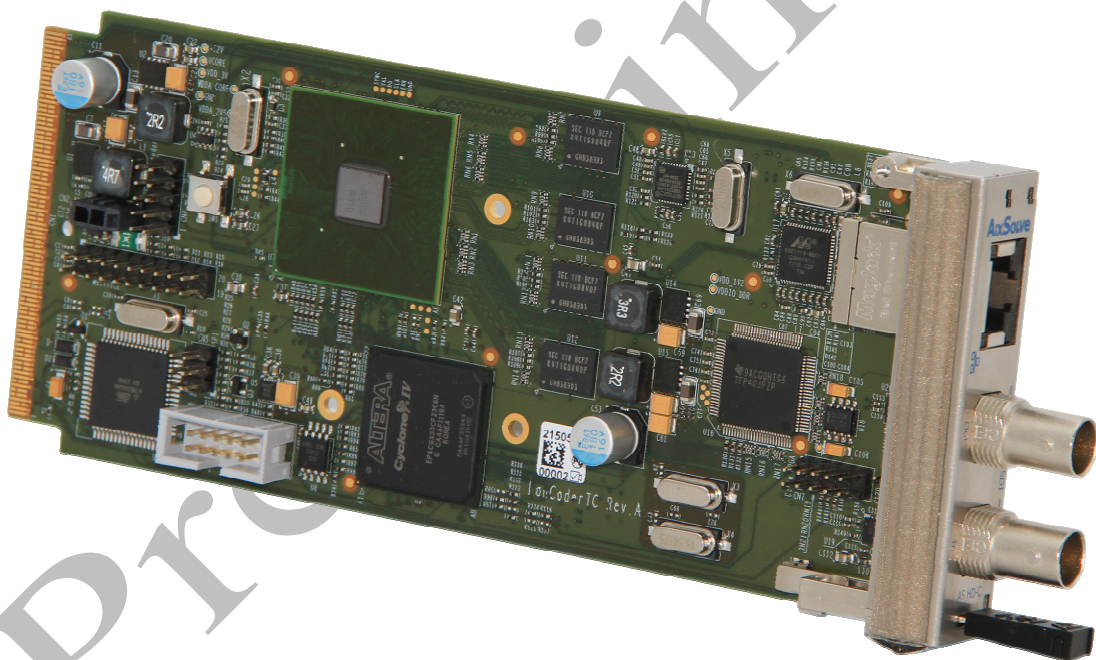


AixSolve Orion *HD Decoder*

All products of AixSolve Orion-Series are compliant to the PICMG standards μ TCA and AMC. This allows an easy combination with other AixSolve or 3rd party AMC products to a total solution according to customers' needs and requirements. All AixSolve Orion products could be configured and managed via Web, Telnet and SNMP.

The AixSolve Orion *HD Decoder* decodes H.264 and MPEG2 video streams up to 1080p60. The audio decoder supports MPEG1** and AAC. Video and display processor together with the OpenGL compliant graphics engine allows not only scaling, frame rate conversion but also logo, ticker, PIP, watermarking and other graphics insertion.



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Video Decoder	<ul style="list-style-type: none"> • MPEG-2 MP@HL, MP@ML, MP@LL, SP@ML • MPEG4-AVC HP@ L4.2, HP@L4.1, HP@L4.2 • Resolution up to 1920x1080/60p • JPEG still pictures up to a maximum rate of 50 Mpel/second • Advanced DTV closed captions according to EIA-708-B • MPEG-1 video decoding with up-sampling and filtering of low resolution video modes to full CCIR601 picture size • 14:9, 16:9 and 20:9 image aspect ratios through pan/scan or letterboxing • 3:2 pull-down of 24fps video sequence
Audio Decoder	<ul style="list-style-type: none"> • MPEG-1**, MPEG-2**, MPEG-2 AAC, MPEG-4 AAC • Decoding of second MPEG-1 stereo audio program** • Sample rates of 16, 22.05, 24, 32, 44.1, 48, 96 and up to 192KHz • High bit rate Audio, up to 24.576 Mbps
System Decoder	<ul style="list-style-type: none"> • MPEG2-TS decoding processing conforming to ISO/IEC13818-1 and Amd3 • Optional other container formats
Display Decoder	<ul style="list-style-type: none"> • Primary display pipeline supports up to 1920x1080P60/50 picture output with five plane compositing • Secondary display pipeline supports up to 720x480i/576i picture output with five plane compositing • High quality up-scaling of graphics layer • Configurable Z-ordering of planes • 8-bit alpha blending between all layers • 29.97/59.94Hz, 30/60Hz and 25/50Hz output display modes • Programmable sharpness, brightness, saturation and hue control • Contour smoothing, luminance sharpening & color boosting • HD picture constrained image output on YPrPb simultaneously with full HD picture quality output
Video Picture Processor	<ul style="list-style-type: none"> • Cube Map, Projected Textures, Non square Textures • Texture Filtering: Bilinear, Trilinear, Anisotropic • Anti-aliasing: 4x Multisampling; Up to 16x Full scene anti-aliasing • High quality interlaced to progressive scan format conversion using up to 4 video fields • Provides high performance 2-dimensional memory-to-memory scaling engine supporting up to 16x arbitrary up/down-scaling
Graphics Engine	<ul style="list-style-type: none"> • OpenGL ES 1.1/2.0 and OpenVG 1.0.1 • Compositing of multiple overlapping graphics surfaces in frame buffer via alphabl

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	<ul style="list-style-type: none"> • Universal Scalable Shader Engine • 32bit floating point depth accuracy with on chip depth buffer • 8-bit Stencil with on chip tile stencil buffer
Application processor	<ul style="list-style-type: none"> • ARM Superscalar Cortex-A9, 8-stage pipeline, ARM v7 instruction set compatible • 1250 Dhrystone MIPS at 500MHz clock rate
Security	<ul style="list-style-type: none"> • 3DES and AES ciphering engines
Interfaces	<ul style="list-style-type: none"> • 1 * ASI IN @ BNC 75 Ohm • 1 * SD-SDI/HD-SDI/3GSDI OUT @ BNC 75 Ohm • Ethernet (802.3) 1000/100/10 MBit/s • AMC
Control & Management	<ul style="list-style-type: none"> • WEB interface • SNMPv1 • Telnet • PreViewPic
Power	<ul style="list-style-type: none"> • 12V2A DC
CE	<ul style="list-style-type: none"> • LV Directive: <ul style="list-style-type: none"> ◦ EN 60950 • EMC Directive (89/336/EEC): <ul style="list-style-type: none"> ◦ EN55022, EN55024 ◦ EN61000-4-2,3,4,5
Part numbers	<ul style="list-style-type: none"> • ori-d1 <ul style="list-style-type: none"> ◦

** (MPEG Audio licence required)

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