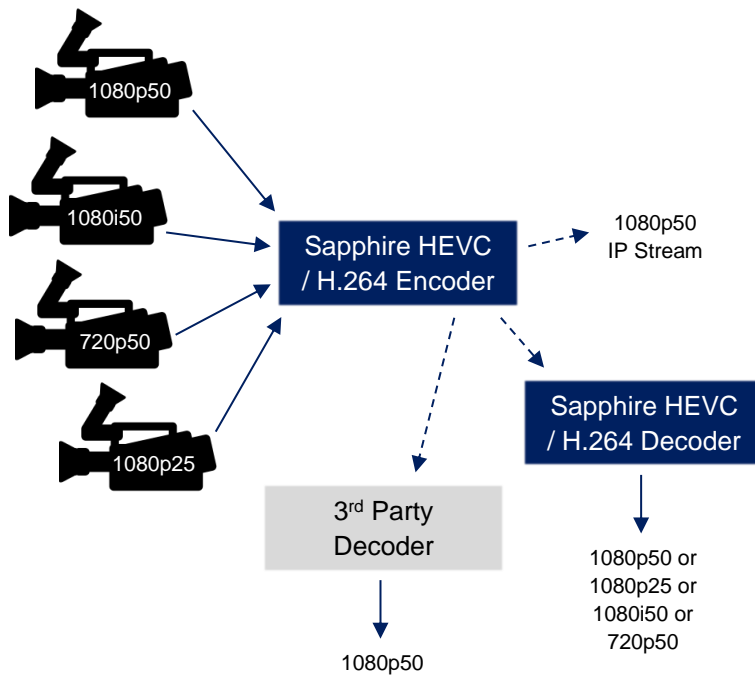


QuadSync HD



Key Features

- Frame synchronised switching of 4 (asynchronous) HD sources
- Automated multi-standards conversion at encoder
- Standards conversion at decoder
- 4 pairs of audio from first input or 1 pair of audio from each input
- Exceptional size and power efficiency vs external switching, resynchronisers and converters
- Licensable feature at encoder and/or decoder depending on requirements

Software History

- v1.6... HD input switching support
- v1.6.1... Output support for 720p
- v1.7... 2 pairs of audio per input

The Sapphire Codec system features innovative QuadSync technology allowing up to four HD inputs to be seamlessly switched into a single stream. The perfect accompaniment to Sapphire Ultra-low latency HEVC encoding, QuadSync introduces no more than a single frame of additional delay.

On an encoder with QuadSync not only can the four sources be asynchronous, but they can also be a variety of different, automatically detected HD-SDI and 3G-SDI formats. This removes the need for external frame resynchronisers or standards conversion and enables a more flexible choice of camera for multi-view applications. The four sources can be selected using either IP or RS-232 control.

On the decoder with QuadSync you gain the option of converting again without the need for external frame resynchronisers or standards conversion.

Simple but flexible audio routing is available. Either take up to 8 pairs of audio from the first SDI input, or 2 pairs of audio for each SDI input. All audio sources will remain active even when sourced from an unselected SDI input.

Encoder Formats	QuadSync Input Standards (asynchronous)	Default Output Standard	QuadSync Output Standards
1080p60	4x 720p30, 720p60, 1080i60, 1080p30, 1080p60	1x 1080p60	1x 1080i60, 1080p30, 720p60
1080p59	4x 720p29, 720p59, 1080i59, 1080p29, 1080p59	1x 1080p59	1x 1080i59, 1080p29, 720p59
1080p50	4x 720p25, 720p50, 1080i50, 1080p25, 1080p50	1x 1080p50	1x 1080i50, 1080p25, 720p50
1080p30, 1080psf30	4x 720p30, 720p60, 1080psf30, 1080p30, 1080p60	1x 1080p30	1x 1080psf30, 1080p30, 1080p60
1080p29, 1080psf29	4x 720p29, 720p59, 1080psf29, 1080p29, 1080p59	1x 1080p29	1x 1080psf29, 1080p29, 1080p59
1080p25, 1080psf25	4x 720p25, 720p50, 1080psf25, 1080p25, 1080p50	1x 1080p25	1x 1080psf25, 1080p25, 1080p50
1080p24, 1080psf24	4x 720p24, 1080psf24, 1080p24	1x 1080p24	1x 1080psf24, 1080p24
1080p23, 1080psf23	4x 720p23, 1080psf23, 1080p23	1x 1080p23	1x 1080psf23, 1080p23
1080i60	4x 1080i60, 1080p60	1x 1080i60	
1080i59	4x 1080i59, 1080p59	1x 1080i59	
1080i50	4x 1080i50, 1080p50	1x 1080i50	
720p60	4x 720p60	1x 720p60	
720p59	4x 720p59	1x 720p59	
720p50	4x 720p50	1x 720p50	