

Aquila Streaming – Performance Level

The richness of a given input channel’s performance level is defined by the license type. The different licence types are Standard, Advanced and Premium.

License Type	Aquila Streaming Features
Premium	<ul style="list-style-type: none"> • Converged Headend • HEVC all resolutions • HDR conversions • Live stream switching, Automation for media composing • Low Latency
Advanced	<ul style="list-style-type: none"> • Up to 576i 25/29.97 fps • SMPTE ST 2022-6 & SMPTE ST 2110 • Codec: 1080p 50/60 encoding, UPI, UPI+ presets & HEVC for UHD • Dolby Vision • Direct path • MGP • Public cloud: Secure uplink & Unicast only environment • Metadata: Watermarking Nielsen, Parental Control • Logo, blackout (media composing without automation) • Stream & Manifest conditioning for ad insertion (SCTE-35 / ESAM) • CVQ • Delivery: Channel routing, playlist election, Converged CMAF output
Standard	<ul style="list-style-type: none"> • IP, SDI ingests including video pre-processing • MPEG-2 & H.264 encoding codecs • All audio codecs • Secondary source • CBR • Standard & Extreme presets • Split & Shared encoding including encoder synchronization • HDR pass-through • Encryption (Widevine, Fairplay, PlayReady) • HLS/TS, DASH, HLS/CMAF, HSS outputs

Aquila Streaming – Features by Resolution

The following table sets out the feature set by resolution.

	Channel Type - SD	Channel Type - HD	Channel Type - UHD
Aquila Streaming	<ul style="list-style-type: none"> • Up to 576i 25/29.97 fps • MPEG2 & MPEG4 AVC • Standard & Extreme • <u>Packaging included:</u> <ul style="list-style-type: none"> • Up to 4 outputs (Standard) • Unlimited (Advanced/Premium) • <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> • N+M and 1+1 (same site) 	<ul style="list-style-type: none"> • Up to 720p (Standard), • 1080p 50/59.94 fps (Advanced/Premium) • MPEG2 & MPEG4 AVC • Standard & Extreme • <u>Packaging included:</u> <ul style="list-style-type: none"> • Up to 4 outputs (Standard) • Unlimited (Advanced/Premium) • <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> • N+M and 1+1 (same site) 	<ul style="list-style-type: none"> • Up to UHD (4K) 50/59.94 fps • MPEG2 & MPEG4 AVC • Standard & Extreme • <u>Packaging included:</u> <ul style="list-style-type: none"> • Up to 4 outputs (Standard) • Unlimited (Advanced/Premium) • <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> • N+M and 1+1 (same site)

Note three key points:

1. The table reflects the minimum or lowest common feature set (of output channels) with Standard License Type offering. Therefore, Advanced and Premium License Types can be higher (for example, “UP” is above minimum feature set so it’s not in Table 1).
2. “Up to 4 outputs” refers to HTTP Streaming Protocol outputs (e.g., HLS, HSS, DASH) plus specific DRM (e.g., Widevine, FairPlay, PlayReady). Therefore, a scenario where there may be a channel with 5 or 9 ABR profiles, but HLS streaming with FairPlay DRM of all profiles is still only counted as one output.
3. Redundancy and high availability are included, but for the same site only. Redundancy or high availability across sites is possible but will require additional licensing.