



## Aquila Broadcast – Performance Level

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

License Type	Aquila Broadcast Features
<b>Premium</b>	<ul style="list-style-type: none"> <li>• JPEG-XS input</li> <li>• HDR conversions</li> <li>• Live stream switching, Automation for media composing</li> <li>• Low Latency</li> <li>• AES-128 CA</li> </ul>
<b>Advanced</b>	<ul style="list-style-type: none"> <li>• SMPTE ST 2022-6 &amp; SMPTE ST 2110</li> <li>• Codec: 1080p 50/60 encoding, UP!, UP!+ presets &amp; MGP</li> <li>• HEVC all resolutions</li> <li>• Public cloud: Secure uplink &amp; Unicast only environment</li> <li>• Logo, blackout (media composing without automation)</li> <li>• Statmux</li> <li>• BISS 2 Fixed Key, DVB CSAv1, DVB CSA v2, PeerSCS, PDG</li> <li>• Dynamic input tracking</li> <li>• ProMPEG FEC</li> </ul>
<b>Standard</b>	<ul style="list-style-type: none"> <li>• IP, SDI ingests including video pre-processing</li> <li>• MPEG-2 &amp; H.264 encoding codecs</li> <li>• All audio codecs</li> <li>• Secondary source</li> <li>• CBR</li> <li>• Standard &amp; Extreme presets</li> <li>• HDR pass-through</li> <li>• Service and Component level remux, PID replication, PSI/SI processing</li> <li>• BISS mode 0/1. Separate CA network support</li> <li>• Active/Active &amp; Active standby multiplexer outputs. VLAN</li> </ul>



## Aquila Broadcast – Features by Resolution

The following table sets out the feature set by resolution.

	Channel Type - SD	Channel Type - HD	Channel Type - UHD
<b>Aquila Broadcast</b>	<ul style="list-style-type: none"> <li>• Up to 720p 25/29.97 fps</li> <li>• MPEG2 &amp; MPEG4 AVC</li> <li>• Standard &amp; Extreme</li> <li>• Includes 10 Mbps Multiplexing</li> <li>• <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> <li>• N+M and 1+1 (same site)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Up to 1080i 25/29.97 fps (Standard), 1080p 50/59.94 fps (Advanced/Premium)</li> <li>• MPEG2 &amp; MPEG4 AVC</li> <li>• Includes 25 Mbps Multiplexing</li> <li>• <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> <li>• N+M and 1+1 (same site)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Up to UHD (4K) 50/59.94 fps</li> <li>• MPEG2 &amp; MPEG4 AVC</li> <li>• Standard &amp; Extreme</li> <li>• Includes 40 Mbps Multiplexing</li> <li>• <u>Redundancy included (SW, not HW):</u> <ul style="list-style-type: none"> <li>• N+M and 1+1 (same site)</li> </ul> </li> </ul>

Note these 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. 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.