

Algorithm Comparison Chart for BRIC-Link Codecs

Required Bitrate	Coding Delay	Audio Bandwidth	
			AAC: Provides near transparent audio at relatively high data rates. Best used on non-constrained data networks - for situation where latency is not important.
64 kb/s	69 ms	20 kHz	D1 Mono
96 kb/s	69 ms	20 kHz	D2 Stereo
128 kb/s	69 ms	20 kHz	D3 Dual Mono allows independent programming to be sent on both L&R channels
128 kb/s	69 ms	20 kHz	D4 Stereo 128Kb
256 kb/s	69 ms	20 kHz	D5 Dual Mono 256Kb allows independent programming to be sent on both L&R channels
56 kb/s	69 ms	20 kHz	D6 Mono 56Kb
96 kb/s	69 ms	20 kHz	D7 Mono 96Kb
160 kb/s	69 ms	20 kHz	D8 Stereo 160Kb
			HE-AAC: Provides near transparent audio at low data rates - for situations where latency is not important.
48 kb/s	146 ms	20 kHz	E1 Mono
64 kb/s	146 ms	20 kHz	E2 Stereo
96 kb/s	146 ms	20 kHz	E3 Dual Mono allows independent programming to be sent on both L&R channels
			Linear PCM: Delivers transparent audio with no compression and very low delay - for use on high throughput networks.
768 kb/s	19 ms	20 kHz	F1 Mono
1536 kb/s	19 ms	20 kHz	F2 Dual Mono
512 kb/s	19 ms	15 kHz	F3 Mono
1024 kb/s	19 ms	15 kHz	F4 Dual Mono
			HE-AAC V2: Provides medium quality HE-AAC implementation using Spectral Band Replication.
18 kb/s	212 ms	12 kHz	G1 Mono 18Kb
24 kb/s	269 ms	12 kHz	G2 Stereo 24Kb adds Parametric Stereo to SBR for higher quality audio at low data rate
32 kb/s	184 ms	20 kHz	G4 Stereo 32Kb adds Parametric Stereo to SBR for higher quality audio at low data rate
48 kb/s	184 ms	20 kHz	G3 Stereo 48Kb adds Parametric Stereo to SBR for higher quality audio at low data rate
56 kb/s	184 ms	20 kHz	G5 Stereo 56Kb adds Parametric Stereo to SBR for higher quality audio at low data rate
			FLAC: Free Lossless Audio Compression provides transparent audio while conserving bandwidth. FLAC bitrate is variable and based on audio input.
~537 kb/s	26 ms	20 kHz	K1 Mono
~1075 kb/s	26 ms	20 kHz	K2 Dual Mono
~358 kb/s	26 ms	15 kHz	K3 Mono
~717 kb/s	26 ms	15 kHz	K4 Dual Mono
			Opus: A newer offering that combines low delay and low network utilization. Opus is included primarily for compatibility with softphone apps and Internet connections using WebRTC. (Special CBR modes are offered for compatibility with Tieline products - avoid these in other applications). 3.0-p9 firmware and higher (N4.1=Default Profile for 4.0 firmware)
48Kb/s	41 ms	20 kHz	N4.1 Mono 48kbps
56Kb/s	41 ms	20 kHz	N4.2 Mono 56kbps
64Kb/s	41 ms	20 kHz	N4.3 Mono 64kbps
64Kb/s	41 ms	20 kHz	N5.1 Stereo 64kbps
96Kb/s	41 ms	20 kHz	N5.2 Stereo 96kbps
128Kb/s	41 ms	20 kHz	N5.3 Stereo 128kbps
48Kb/s	41 ms	20 kHz	N6.1 CBR Mono 48kbps
64Kb/s	41 ms	20 kHz	N6.3 CBR Mono 64kbps
64Kb/s	41 ms	20 kHz	N7.1 CBR Stereo 64kbps
96Kb/s	41 ms	20 kHz	N7.2 CBR Stereo 96kbps
128Kb/s	41 ms	20 kHz	N7.3 CBR Stereo 128kbps
			VoIP: G.711 and G.722 coding algorithms for compatibility with SIP-style VoIP phones.
64 kb/s	35 ms	3 kHz	X1 G.711 a-law
64 kb/s	35 ms	3 kHz	X2 G.711 μ-law
64 kb/s	35 ms	7 kHz	X3 G.722

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