

Table 1

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CODEC FAMILIES AND STANDARDS ESSENTIAL PATENTS

Class	CODEC Family	Standards Essential Patent Situation
Wireline Voice	G.711 PCM	Artesyn believes that these codecs are currently unencumbered by standards essential patents.
	G.722 Wideband	
	G.726 ADPCM	
	G.723.1	Indemnification for infringement of SEPs for these codecs is included within the Artesyn custom license described here.
	G.729AB	
	G.722.1	G.722.1 (also known as "Siren") is licensed royalty free by Polycom provided that the end-product manufacturer executes the license at http://www.polycom.com/company/about-us/technology/siren.html . Customers interested in this codec should contact Polycom directly.
iLBC	iLBC is an open source royalty-free codec available directly to Customers under the "revised BSD" license. The full text of the Revised BSD License can be found at: http://opensource.org/licenses/BSD-3-Clause .	
Wireless Voice	GSM FR	GSM and GSM AMR codecs may incorporate SEPs held by Ericsson, Voiceage, Nokia, NTT, and France Telecom. Please see "A NOTE ON WIRELESS VOICE CODECS".
	GSM AMR	
	GSM AMR WB	
	EVRC-A	EVRC codecs may incorporate SEPs held by Qualcomm, Ericsson, NTT, France Telecom and others. Please see "A NOTE ON WIRELESS VOICE CODECS".
	EVRC-B	
Internet Voice	SILK	SILK can be used royalty free under a patent license at http://developer.skype.com/silk/license . Customers interested in SILK should contact Skype directly.
	SPEEX	Speex is an open source royalty-free codec available directly to Customers under the "revised BSD" license (see iLBC above for reference).
	Opus	Opus is an open source royalty-free codec available directly to Customers under the "revised BSD" license (see iLBC above for reference).
Video	H.263	MPEG LA (www.mpegla.com) offers coordinated patent licenses for video codecs to end-product manufacturers. Customers interested in these codecs should contact MPEG-LA directly.
	MPEG-4	
	H.264	

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