

MediaCodec Spec. Video:

	File Extension	Container	Video Codec	SPEC	Bit Rate	Profile	Remark
✓	dat, mpg, mpeg	MPG, MPEG	Mpeg1,2	1080P@ 30fps	50Mbit/sec	Main Profile	
✓	ts, trp, tp, m2ts	TS	MPEG2 ,H.264, VC1, AVS, MVC	H.264: 1080Px2@25fps 1080P@ 50fps MVC: 1080P@ 24fps Other: 1080P@ 30fps	50Mbit/sec	H264: Main Profile and High Profile @Level 4.1 MPEG2: MP@HL	
✓	vob	MPEG2 - PS	MPEG2	1080P@ 30fps	50Mbit/sec	MPEG2: MP@HL	
✓	mp4	AVI, MP4	MPEG4 Divx 3.11, Divx 4.12, Divx 5.x, Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	H.264: 1080Px2@25fps 1080P@ 50fps 1080P@ 30fps	50Mbit/sec	H264: Main Profile and High Profile @Level 4.1 MPEG4: Simple Profile and Advanced Simple Profile @Level 5	MP4: GMC is not supported
-	rm, rmvb	RMVB, RM	rm codec	1080P@ 30fps	50Mbit/sec	RV8, RV9, RV10	
✓	mkv	MKV	H.264, MPEG1,2,4	H.264: 1080Px2@25fps 1080P@ 50fps 1080P@ 30fps	50Mbit/sec	H264: Main Profile and High Profile @ Level 4.1 MPEG4: Simple Profile and Advanced Simple Profile @Level 5	
✓	divx, avi	AVI(1.0, 2.0), DMF0,1,2	MPEG2, MPEG4 Divx 3.11, Divx 4.Divx 5, Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2 H.264	H.264: 1080Px2@25fps 1080P@ 50fps 1080P@ 30fps	50Mbit/sec	MPEG2: MP@HL MPEG4: Simple Profile and Advanced Simple Profile @Level 5	
✓	Motion JPEG	AVI, MOV	JPEG	640x480 @ 30fps	10Mbit/sec		
✓	asf, wmv	ASF (Revision 01.20.03)	VC1	1080P@ 30fps	50Mbit/sec	Advanced Profile @ Level 3 Simple Profile and Main Profile	
✓	3gp	3GPP	MPEG4 H.264	1920x1080 @ 30P	20Mbit/sec	H264: Main Profile and High Profile @Level 4.0 MPEG4: Simple Profile and Advanced Simple Profile @Level 5	
✓	fla, flv	FLV	H.264, Sorenson H.263	H.264: 1080Px2@25fps / 1080P@ 50fps 1080P@ 30fps	40Mbit/sec	H264: Main Profile and High Profile @ Level 4.1	
✓	m4v	M4V					

MediaCodec Spec. Audio:

	Audio Codec	File Extension	Bit/Sampling Rate	Remark
✓	MPEG1/2 Layer1	MP3	32Kbps ~ 448Kbps(Bit rate) 16KHz ~ 48KHz(Sampling rate)	
✓	MPEG1/2 Layer2	MP3	8Kbps ~ 384Kbps(Bit rate) 16KHz ~ 48KHz(Sampling rate)	
✓	MPEG1/2 Layer3	MP3	8Kbps ~ 320Kbps(Bit rate) 16KHz ~ 48KHz(Sampling rate)	
✓	AC3	N/A (work with video files only)	32Kbps ~ 640Kbps(Bit rate) 32KHz, 44.1KHz, 48KHz(Sampling rate)	
✓	EAC3	N/A (work with video files only)	32Kbps ~ 6 Mbps 32KHz, 44.1KHz, 48KHz(Sampling rate)	
✓	AAC, HEAAC	M4A/AAC	Free Format (Bit rate) 8KHz ~ 48KHz(Sampling rate)	
✓	WMA	WMA/ASF	128bps ~ 320Kbps (Bit rate) 8KHz ~ 48KHz (Sampling rate)	WMA 7, WMA 8, WMA 9 Standard
✓	WMA Pro	WMA/ASF	< 768kbps (Bit rate) ~ 96KHz (Sampling rate)	WMA9 Pro (upto 5.1 channels, 96KHz)
-	OGG	OGG	Free Format (Bit rate) ~ 48KHz (Sampling rate)	* only support stereo decoding
-	DTS (DMP)	N/A (work with video files only)	< 1.5Mbps (Bit rate) ~ 48KHz (Sampling rate)	
✓	LPCM	N/A (work with video files only)	64Kbps ~ 1.5Mbps (Bit rate) 8KHz ~ 48KHz (Sampling rate)	
✓	IMA-ADPCM/MS-ADPCM	N/A (work with video files only)	384Kbps (Bit rate) 8KHz ~ 48KHz (Sampling rate)	
✓	G711 A/mu-law	N/A (work with video files only)	64~128Kbps (Bit rate) 8KHz (Sampling rate)	
-	LBR (cook)	N/A (work with video files only)	6Kbps ~ 96Kbps (Bit rate) 8KHz ~ 48KHz (Sampling rate)	
✓	PCM	PCM	8Kbps ~ 320Kbps(Bit rate) 16KHz ~ 48KHz(Sampling rate)	
✓	LPCM	WAV		

MediaCodec Spec. Photo:

	Image	Photo	Resolution (Mstar suggest)	Required DRAM size (Mbytes)	Remark	width	height	bytes
✓	JPEG	Base-line	15360x8704 (1920x8 x 1088x8)	3,96	Depends on RAM size	15360	8640	4147200
		Progressive	1024x768	6,00		1024	768	6291456
✓	PNG	non- interlace	9600x6400	3,66		9600	6400	3840000
		interlace	1200x800	3,66		1200	800	3840000
✓	BMP		9600x6400	3,66		9600	6400	3840000
<p>1) Resolution is kind of reference design, not hardware limitation. Because it is bounded by DRAM size and performance</p> <p>2) More large resolution, more DRAM size</p> <p>3) More large resolution, less performance (more time to show a picture)</p> <p>4) Jpeg decoder is hardware decoder. Limitation of max resolution is 16360x16360</p> <p>5) PNG/BMP decoder is software decoder (running on co-processor). Limitation of max resolution is depend on DRAM size</p>								