

# TCC892x MID Android Solution's System Specification

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Category	Specification			MID			Remark	
				2012.04	2012.05	2012.06		
	Boot loader	Type	LK Boot	YES				
		Default Device	NAND (SLC/MLC)	YES				
			eMMC	YES			Should be used the SD Port4 or Port5 for SD/eMMC boot.	
			SD	YES				
Kernel	DRAM Control	DDR2	512M	YES				
			1024M	YES				
		DDR3	512M	YES				
			1024M	YES				
	Storage	NAND Driver	FAT	YES				
			NTFS	YES				
		SD/MMC	FAT	YES				
			NTFS	YES				
		USB Storage	FAT	YES				
			NTFS	YES				
	USB	OTG	USB 2.0 OTG	YES			Only support HID and MSC	
		Host 2.0	USB Host 2.0	YES				
	Audio	I2S Interface		YES				
				YES				
		Audio Codec	WM8731	YES				
			WM8750	TBD				
			WM8524	TBD				
			WM8988	YES				
			WM8994	TBD				
		ES8388	YES					
			SPDIF Interface	PCM	TBD			Only STB solution
				Pass Through	TBD			Only STB solution
	UAC		YES					
	Connectivity	Ethernet	GMAC/MII/RGMII	YES				
		WIFI	Realtek 8188CU	YES			USB I/F, 802.11 b/g/n	
		WIFI	Atheros 6003	YES			SDIO I/F, 802.11 b/g/n	
			Atheros 6103	YES			SDIO I/F, 802.11 b/g/n	
			Atheros 6302	YES			SDIO I/F, 802.11 b/g/n	
			BCM4330	NO	YES			
	I/O	GPSB	SPI Host	YES				
			SPI Slave	YES				
			TSIF Serial	YES				
		TS Parallel		TBD				
		I2C		YES				
		UART		YES				
		Smart Card		YES				
		Touch Driver	Internal ADC	YES				
			TSC2003	TBD			TSC2003 Controller is not mounted on TCC892x board	
		KeyPad	Matrix Key	YES				
			A/D Key	YES				
		Mouse	USB mouse	YES				
		Keyboard	USB keyboard	YES				
		Display Interface	LCD	800x480	YES			
			LVDS	1024x768	YES			Except TCC8923
	1280x800			YES				
	CVBS		NTSC	YES				
			PAL	YES				
	Component		1920x1080i	YES			With THS8200 Chip	
			1280x720p	YES			With THS8200 Chip	
	HDMI		1920x1080p 60Hz	YES				
			1920x1080i 60Hz	YES				
			1280x720p 60Hz	YES				
			720x480p 60Hz	YES				
			640x480p 60Hz	YES				
			Auto Mode	YES				
			Scale Up UI	YES				
	Default Display		LCD	YES				
		LVDS	YES			Except TCC8923		
	Default Resolution	800x480	YES			Recommend bigger than 800x600 resolution		
		1024x768 (LVDS)	YES					
		1280x800 (LVDS)	YES					
		1.3M Pixel	MT9M113	YES				
2M Pixel		MT9D112	TBD					

	Camera	3M Pixel	MT9T111	YES		
		5M Pixel	MT9P111	YES		
		UVC		NO	YES	
	RTC	RTC Driver		YES		
	GPS	GPS Driver	SiRF(JGR-SC3-S)	YES		
	Sensor	G-Sensor	BMA150	YES		
			BMA220	TBD		
			BMA250	YES		
			BMA023	YES		
	Power Mangment	DVFS	AK8975	YES		
			AXP192	YES		
			AXP202	YES		
			RN5T614	YES		
			Active Semi ACT8810	TBD		
Application	3D/2D	3D/2D	MALI 400 Driver	YES		
	Power Mangment	Sleep		YES		
		Shutdown		YES		
	DxB	T-DMB	Playback	YES		
			Recording (MP4)	YES		
			Capture	YES		
			DAB	YES		
			SLS/DLS	YES		
			TPEG	TBD		Not support
			TCC3150	YES		
			TCC3161	YES		
			TCC351X	YES		
		DVB-T	Playback	YES		
			Recording (TS)	YES		
			Capture	YES		
			EPG	YES		There could be patent issues about EPG. For the patent about EPG, Telechips doesn't guarantee anything, and it should be handled by customer themselves.
			TeleText	YES		
			SubTitle	YES		
			TCC351X	YES		
		ISDB-T (Full Seg)	Playback	YES		
			Dual Decoding	YES		
			Recording (TS)	TBD		
			Capture	YES		
		ISDB-T (Full Seg)	EPG	YES		There could be patent issues about EPG. For the patent about EPG, Telechips doesn't guarantee anything, and it should be handled by customer themselves.
			SubTitle	YES		
			CAS	YES		
			TCC353X	YES		
		ISDB-T (One Seg)	Playback	YES		
			Recording (TS)	YES		
			Capture	YES		
			EPG	YES		There could be patent issues about EPG. For the patent about EPG, Telechips doesn't guarantee anything, and it should be handled by customer themselves.
			SubTitle	YES		
			TCC351X	YES		
		ATSC	Playback	TBD		
			Recording (TS)	TBD		
			Capture	TBD		
			EPG	TBD		
			Closed Caption	TBD		
			CAS	TBD		
Application	IPTV	IPTV (TS Streaming)	UDP	YES		
			RTP	YES		
		Video	AVI	YES		
			3GP/MP4	YES		
			MOV	YES		
			MPG	YES		
			VOB	YES		
			MKV	YES		
			FLV	YES		
			TS/TP	YES		
		Music	MP3	YES		
			MP2	YES		
			AAC	YES		
			OGG	YES		
			FLAC	YES		

Application	Multimedia*		APE	YES	
		Progressive Download (HTTP)	AVI	YES	
			3GP/MP4/MOV	YES	
			MPG	YES	
			VOB	YES	
			MKV	YES	
			FLV	YES	
			TS/TP	YES	
		Streaming Play (RTP/RTSP)	3GP/MP4	YES	Unicast only
		Network File System	NFS	YES	Work with PC application that support NFS.
			CIFS	YES	
		Effect	Telechips EQ	TBD	
			SRS (License)	TBD	
		Variable speed Playback	0.1 ~ 1.9(License)	TBD	Pitch control will be provided by 3rd party
			forward seek (x2.0 ~ x32)	YES	
			reverse seek (x0.5~x32)	YES	
		Additional Audio Codec	AC3 (License)	YES	
			eAC3 (License)	YES	
			DTS (License)	YES	
			WMA (License)	YES	
			WMV (License)	YES	
		Subtitle	SMI	YES	
			SRT	YES	
			SUB	YES	
			MKV Internal	YES	
			TS Internal	YES	
		Multi Audiobook		YES	
		Video Enhancement	Deinterlacing	YES	60Hz Deinterlacing support
	Photo	Format	JPEG	YES	
			GIF	YES	
			PNG	YES	
			BMP	YES	
	Photo	Format	TIFF	TBD	
	Camcorder	Video Codec	H.263/H.264	YES	
			MPEG4	YES	
		Audio Codec	AAC/AMR-NB	YES	
			MP4	YES	
			AVI	TBD	
	Camera	Format	M2TS	YES	Support only H.264 + AAC Combination.
			JPEG	YES	
	Video En/Decoding			TBD	
	Audio Recording	Audio Codec	MP3	YES	
			AMR	YES	
	BT	Module Driver	CSR BC6	YES	
			BCM4330	NO	YES
			RDA5875	YES	
		BlueZ	AD2P	YES	
			AVRCP	YES	
			OPP	YES	
			PBAP	YES	
			HID	YES	
			PAN(NAP/PANU)	YES	This function is BT tethering function
	WIFI	WIFI Direct		NO	YES
		WIFI Tethering		YES	