

Reference Model for Televisions

Overview

The reference model for televisions is provided together with reference application software (CTS Series) for each target region/country, such as Asia, China, U.S., and Central and South America.

System control is performed using an 8-bit microcontroller (TLCS-870/X Series) for controlling peripheral circuitry mainly built with Toshiba ICs for TV applications. Features specific to each target region/country, such as stereo systems (NICAM, IGR, SAP, etc.) and closed captions, are also supported.

System Specifications

- Common Functions

- Tuning function : Direct tuning, channel up/down tuning
- Wide power supply range : 90 - 260 V
- Sleep timer : 120 minutes
- Auto power-off function
- Factory adjustment function & service mode function

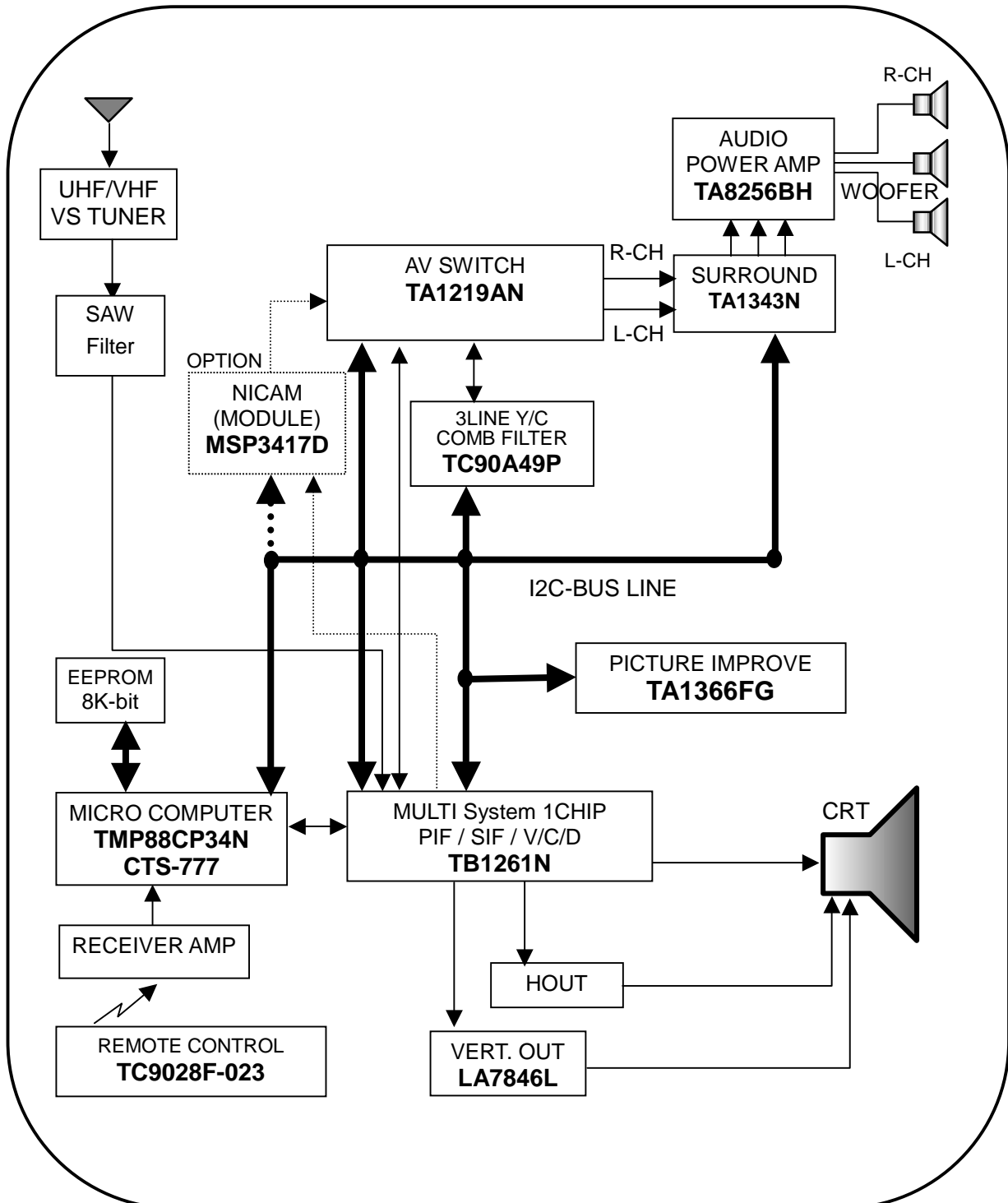
- Comparison of Specifications

	CTS-776	CTS-777	CTS-875	CTS-850	CTS-851	
Microcontroller	TMP88CP38BN	TMP88CP34N	TMP88CP38AN	TMP88CP38AN	TMP88CP38AN	
Video signal processing IC	TB1261N	TB1261N	TB1251N	TB1253N	TB1263N	
Other peripheral ICs	TA1219AN TC90A49P TA1366FG TA1343N MSP3417D	TA1219AN TC90A49P TA1366FG TA1343N MSP3417D	TA1218AN TC90A67F TC90A49P TA2136P TA1216AN TC90A74F TC90A35F	TC90A67F TA1218AN TC90A45P CXA1784AS	TA1219AN TC90A49P TA1366FG TA1343N uPC1851B	
Target country	China	China	China	U. S.	U.S.	
Tuning method	VS	VS	FS	FS	FS	
Supported broadcast system	PAL	Supported	Supported	Supported	Not supported	Not supported
	SECAM	Supported	Supported	Supported	Not supported	Not supported
	NTSC	Supported	Supported	Supported	Supported	Supported
Number of channel positions	200	200	50/100	US181	US181	
External input	Video S-Video Y/Cb/Cr	Video S-Video Y/Cb/Cr	Video S-Video Y/Cb/Cr	Video S-Video Y/Cb/Cr	Video S-Video Y/Cb/Cr	
Display languages	English Chinese	English Chinese	English Chinese	English French Spanish	English French Spanish	

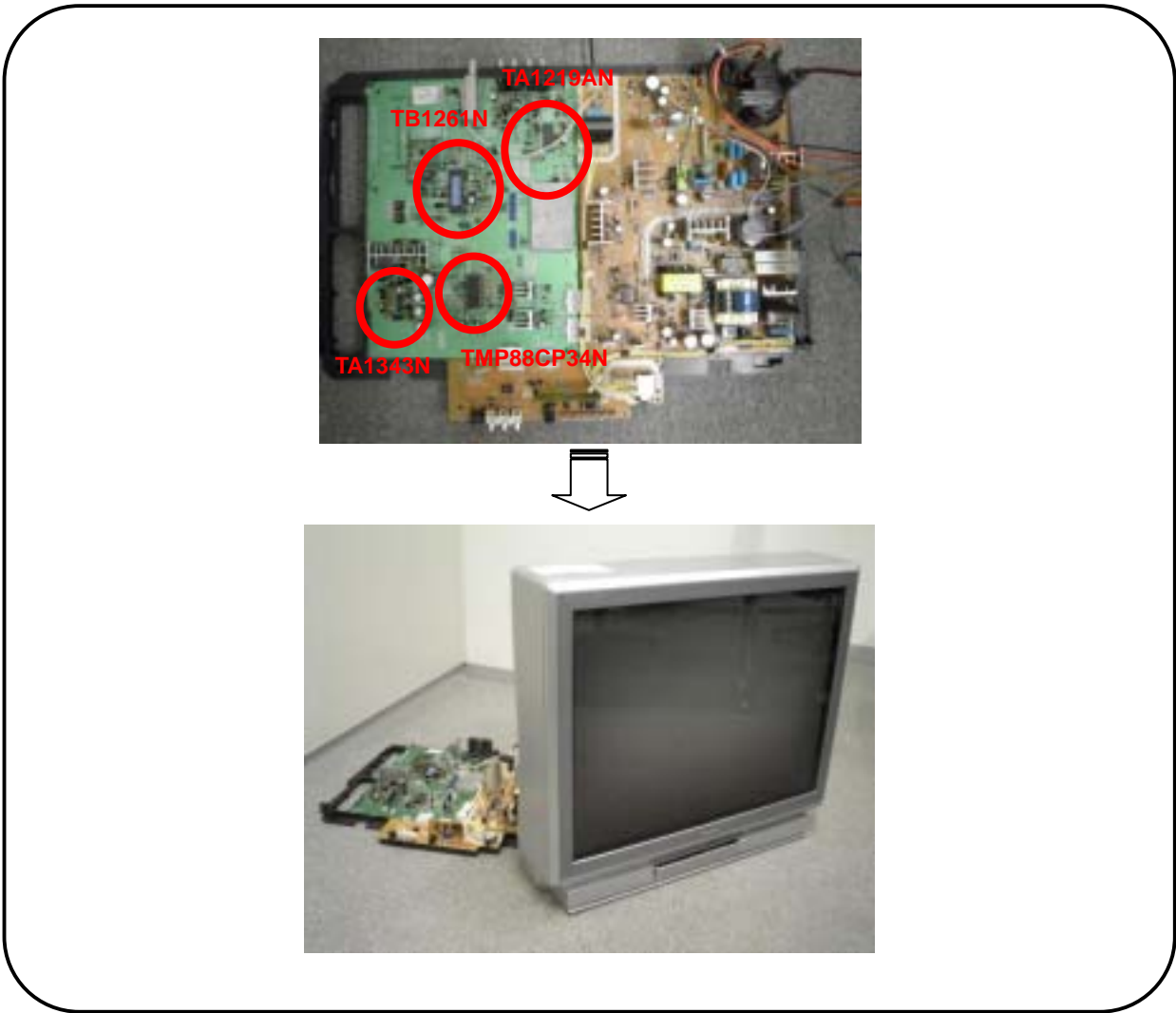
Features

- 1) The reference software offers overall control of the TV system mainly comprised of Toshiba ICs, enabling speedier development of TV sets and custom software.
- 2) Worldwide TV/broadcast systems are supported with emphasis on China and other Asian countries.

Block Diagram (CTS-777)



Reference Model (CTS-777)



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