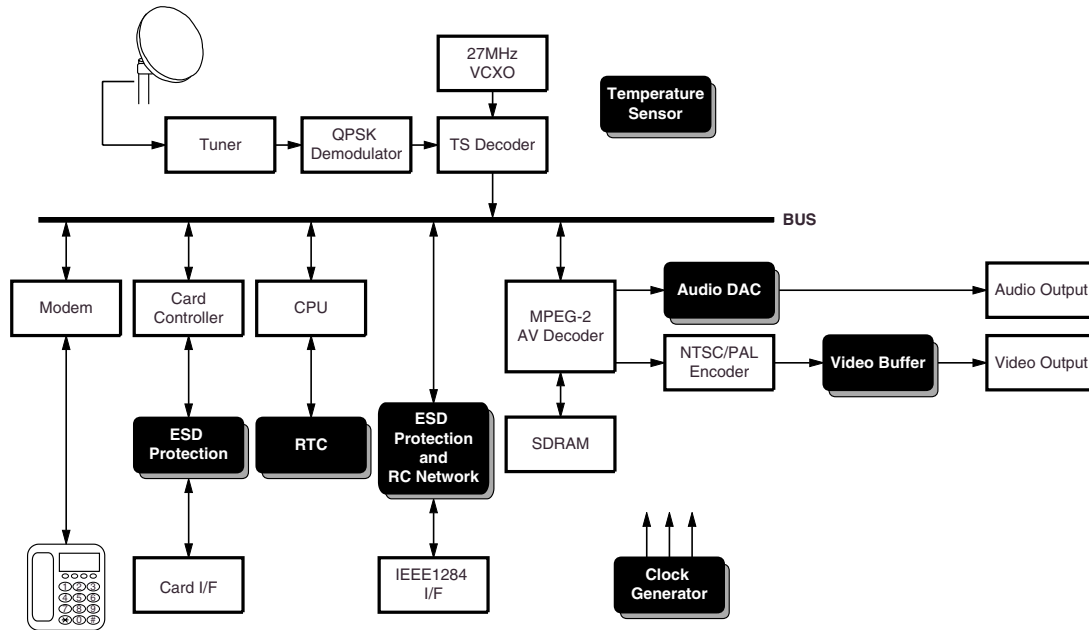


## Block Diagram

### Set Top Box



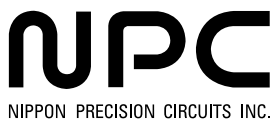
## NPC Products

Audio DAC			
SM588× series	16/24-bit $\Sigma\Delta$ D/A converter.	4.5 to 5.5V	SOP8
Video Buffer			
SM5300A	3-channel video buffer with built-in lowpass filter, 5MHz to 37MHz variable cutoff frequency, Output buffer gain switching function: 0 ( $\times$ 1), 3 to 10dB.	4.5 to 5.5V	VSOP28
Clock Generator			
SM8707D/E	27MHz master clock, 3 clocks with 6-system output, Low jitter.	3.0 to 3.6V	VSOP16
RTC			
NR8576 series	Crystal oscillator element built-in for adjustment free use, serial interface, 32.768kHz and 1Hz output selectable.	2.5 to 5.5V	SOP14/SOP18
SM8577B	3-wire serial interface, 32.768kHz and 1Hz output selectable.	2.5 to 5.5V	SOP8
SM8578B	3-wire serial interface, Date, day, hour, and minute-counter presettable alarm and timer interrupt functions, Low current consumption.	1.6 to 5.5V	VSOP8
SM8580A	Built-in temperature sensor, High-speed bus 4-bit parallel interface, Date, day, hour, minute, and second-counter presettable alarm interrupt function, Low current consumption.	1.6 to 5.5V	SSOP24

## NPC Application Guide

ESD Protection			
SM6500AA-2	RC network with ESD protection for IEEE1284 parallel port, Integrated terminator filter and $\pm 8\text{kV}$ (contact discharge, typical value) ESD protection.	6.0V	QSOP28
SM6503A	$\pm 12\text{kV}$ (contact discharge) ESD protection, 5 circuits integrated into one package.	–	SOT23-6/SON6
Temperature Sensor			
SM6610 series	Temperature sensor IC, Analog output, Linearity: $\pm 0.5\%$	4.0 to 5.5V 2.4 to 5.5V	SC82AB/VSP4

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