

Technical Description

The explanation for sketch map of

Digital satellite receiver IR-7000/IR-401/SY-400i/GS3000

The satellite signal from satellite antenna go is transmitted to the tuner in DSR, then converted to low frequency. After modulated by QPSK mode, the TS stream signals are sent to CPU(MB87L2250) for MPEG-2 decoding. All the audio and video signals which are decoded are converted from digital to analog by audio and video DAC, these signals are sent to RCA output jacks; meanwhile, another kind of signals C,Y are produced by video DAC and sent to S-VIDEO output jack.

The FLASH in the map is mainly used for storing system programs and all channels' information.

One SDRAM is used for decoding MPEG-2, the other is for execution of program and store of temporary data.

RS-232 serial port is used for software update and test of unit status.

EEPROM is for memory of current work status' of receiver.

Front panel is for Infrared reception、 display of channel name and response of button pressing.

SMART connector is for reading the relative data from the smart card if inserted to receive the encrypted programs. (GS-3000 without SMART connector)

Each model has the same SMPS circuit, voltage range and panel circuit, operation mode nearly same except GS-3000 which hasn't smart connector.