

# DS303A

## TERRESTRIAL DIGITAL TV SIGNAL GENERATOR

### General

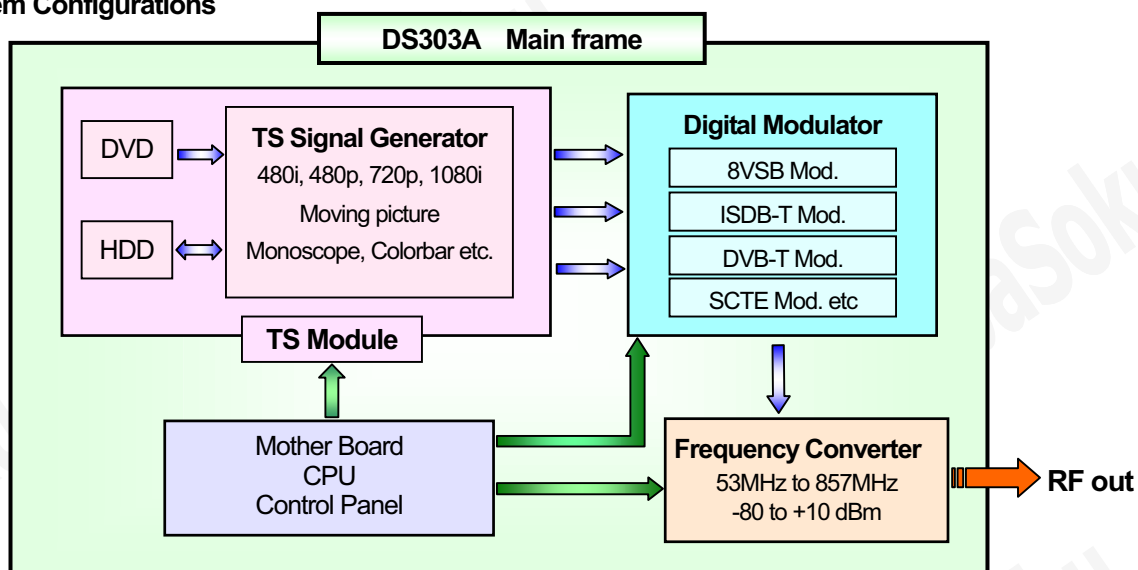
The DS303A Terrestrial Digital TV Signal Generator is an all-in-one digital TV signal generator. 1 unit of DS303A can output various countries of digital TV signal.



### Features

- ◇ Main frame can be equipped modules for MPEG2 TS signal generator, digital modulator and frequency converter
- ◇ Supports multi format  
Following systems can be equipped in one mainframe and output 1 system by setting.  
8VSB, DVB-T, SCTE (USA QAM), ISDB-T and DVB-T will be sold on/about March 2006.  
Also, ISDB-C, DVB-C, DVB-T, DMB-T and Fading unit will be sold after above standards.
- ◇ Selectable modulation systems and broadcast standards
- ◇ Abundant TS signals are equipped  
Generates moving picture, Monoscope, Colorbar and more
- ◇ Variable transmission rate
- ◇ Packet length is selectable
- ◇ RF output frequency range: 53 MHz to 857 MHz, 50 kHz increment (center frequency)
- ◇ RF output level: -80 dBm to +10 dBm (0.1 dBm increment)

### System Configurations



## ■ Specifications

### ◇ Module for MPEG2 TS signal generator

- TS recorded in the built-in HDD can be output.
- TS can be recorded in the built-in HDD via network or CD-ROM, DVD-ROM.
- Transmission rate: 0.5 Mbps to 60 Mbps (depends on TS contents)
- Packet length: 188 Byte, 204 Byte or 208 Byte
- Interface: DVB-SPI, DVB-ASI (option) and SMPTE-310M (option)
- TS contents (for ATSC system) 480i, 480p, 720p and 1080i  
Moving picture, Monoscope, Colorbar, Ramp, Multiburst and more.

### ◇ Module for digital modulator

- Max. 8 systems can be equipped.
- Input: DVB-SPI, DVB-ASI (Option), SMPTE-310M (Option)
- IF output connector: BNC, 75 ohm
- IF output level: -15 dBm +/- 5 dB
- IF output frequency: 44 MHz +/- 200 kHz

### ◇ Module for frequency converter

- IF input connector: BNC, 75 ohm
- IF Input level: -15 dBm
- IF Input frequency: 44 MHz
- RF output connector: BNC, 75 ohm
- RF output level: -80 dBm to +10 dBm (0.1 dBm increment)
- RF output frequency: 53 MHz to 857 MHz, 50 kHz step (center frequency)  
Setting by frequency or channel
- Frequency accuracy: within +/- 1 ppm
- Phase noise: -90 dBc/Hz at 10 kHz offset
- Spurious: -60 dBc at +10 dBm output

### ◇ Monitor output

- Connector: BNC, 75ohm
- Level: About -20 dB against RF output level
- Frequency: Same as RF output frequency

## ■ General specifications

- Power supply: AC 90 V to 250 V, 50/60 Hz
- Dimensions: 426 (W) x 149 (H) x 460 (D) mm

**ShibaSoku Co.,Ltd.**

### International Sales Dept.

848, Wakamatsu-cho, Tokorozawa-shi, Saitama, 213-0011 Japan

Phone: +81-4-2996-3414 Fax: +81-4-2996-3419

### ShibaSoku Taiwan Co., Ltd.

5F, No.39, Shi-Wei St., San-Chung City, Taipei Hsien, Taiwan

Phone: +886-2-8985-0960 Fax: +886-2-8985-1306

### Asaca/ShibaSoku Corp. of America

400 Corporate Circle, Suite G, Golden, CO 80401, U.S.A

Phone: +1-303-278-1111 Fax: +1-303-278-0303 URL: <http://www.asaca.com>

Mail to: [info@shibasoku.co.jp](mailto:info@shibasoku.co.jp)

URL: <http://www.shibasoku.com/>