

DS303B

Digital TV Signal Generator

General

The DS303B is a multi signal generator for terrestrial digital TV broadcasting. If assembled together with the optional units, it can output signals compatible with terrestrial digital TV broadcasting systems used in countries around the world, including ATSC in North America, DVB in Europe, and ISDB in Japan..

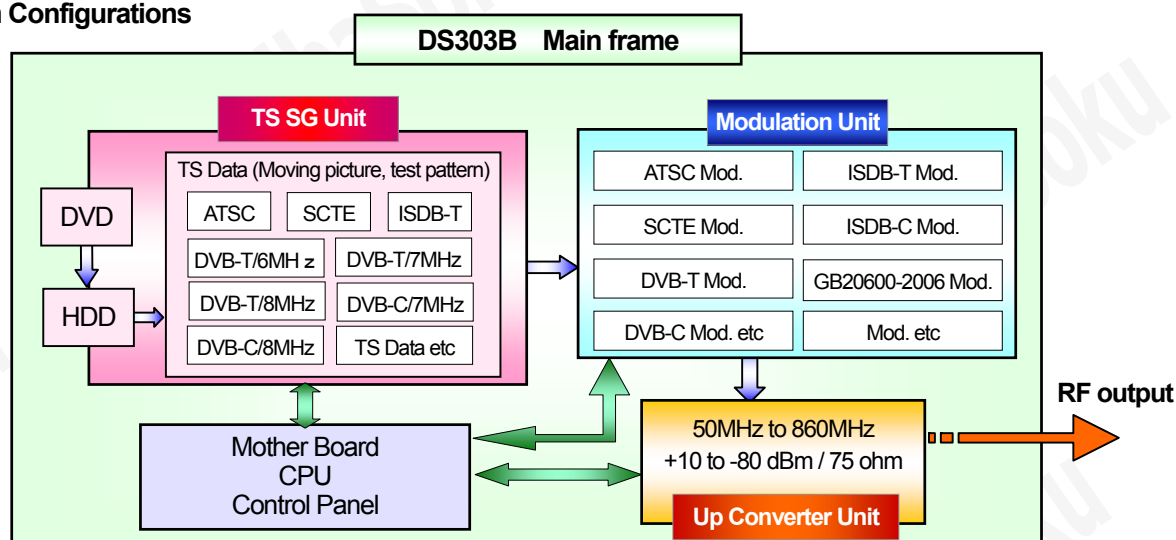
Using an optional modulation methods, it can also output signals for different types of terrestrial digital TV broadcasting. This makes it possible to handle different TV broadcasting systems without the need to prepare different signal generators for different TV broadcasting systems.



Features

- ◆ The DS303B is a multi signal generator for terrestrial digital TV broadcasting in worldwide.
- ◆ Supports multi terrestrial digital TV broadcasting systems
ATSC, SCTE, DVB-C, ISDB-T (including 1 segment), ISDB-C, DVB-T, GB20600-2006 (China)
- ◆ The optional units are:
 - TS SG Unit: TS output from its built-on hard disk drive. Generates moving pictures, Monoscope patterns, Colorbar and more
 - Modulation Unit: Possible to switch between up to 8 different modulation methods
 - Up Converter Unit: Generates RF signals in the VHF and UHF band
- ◆ The features that any signal desired can be output any time, as necessary, can be put to effective use in cellular manufacturing on production lines.
- ◆ IF a power amplifier (optional RA series) is added to the DS303B, a centralized TV signal generator system can be established.

System Configurations



■ Specifications

- ◇ Main frame
 - REF input signal INT/EXT (switchable)
 - Connector BNC-J, 50 Ω
 - Level 0.3 to 3.0 Vp-p, sine wave
 - Frequency 10 MHz, ± 5 ppm
 - REF output signal
 - Connector BNC-J, 50 Ω
 - Level Approx. 1.0 Vp-p, sine wave
 - Frequency 10MHz, ± 3 ppm or less (It follows the input signal at an external input)
 - Monitoring functions
 - Fan, Power supply, Detection of unit alarm
 - Remote control (Option, DS303A001)
 - RS232C, GP-IB, GPI
- ◇ MPEG-2 TS signal Generator
 - TS SG unit (Option DS303B100)
 - Output signal DVB-SPI, conforms to EN 50083-9 standards
 - Connector D-SUB 25pins, FEMALE
 - Level LVDS, differential 100 Ω
 - Compatible stream
 - Conforms to ISO/IEC 13818-1, MPEG-2 system, and MPEG2-TS
 - Transmission rate 0.5 to 50 Mbps (depends on TS contents)
 - Packet length 188, 204, 208 bytes
 - Drives DVD-ROM, HDD (80 GB or more)
 - Interfaces LAN, SERIAL (for UPS connect)
 - TS content data (Options)
 - ATSC: DS303AA01 SCTE: DS303AB01
 - ISDB-T: DS303AC01 DVB-T, 6 MHz: DS303AE01
 - DVB-T, 7 MHz: DS303AF01 DVB-T, 8 MHz: DS303AG01
 - DVB-C, 7 MHz: DS303AU01 DVB-C, 8 MHz: DS303AL01
- ◇ Modulator
 - Modulation unit (Option DS303B200)
 - Input signal DVB-SPI, conforms to EN 50083-9 standards
 - Connector D-SUB 25pins, FEMALE
 - Level LVDS, differential 100 Ω
 - Transmission rate 0.062500 to 7.500000 Mbyte
 - Output signal IF
 - Connector BNC-J, 75 Ω
 - Level -15 dBm, Typical
 - Center freq. 44.000000 MHz (± 200 kHz, 1 Hz steps)
- Functions Generates test data (PRBS)
IF signal polarity switchable
- Modulation (Options)
 - ATSC DS303A210, conforms to ATSC A/53 standard
 - ISDB-T DS303A211, conforms to ARIB STD-B31
 - DVB-T DS303A212, conforms to ETSI EN 300744
 - SCTE DS303A220, conforms to ANSI/SCTE 07, ITU-T Recommendation J.83 Annex B
 - ISDB-C DS303A221, conforms to ITU-T Recommendation J.83 Annex C
 - DVB-C DS303A210, conforms to ETSI EN 300429, ITU-T Recommendation J.83 Annex A
 - GB20600-2006 DS303A213 (China)
- ◇ Up converter unit (Option DS303B300)
 - Input signal IF
 - Connector BNC-J, 75 Ω
 - Level -15 dBm, ± 5 dB (IF AGC ON)
 - RF output signal
 - Connector BNC-J, 75 Ω
 - Level +10 to -50 dBm (± 2 dB)
-50.1 to -80 dBm (± 3 dB)
0.1 dB steps
 - Frequency band 50 to 861 MHz (50 kHz steps)
 - Functions Output ON/OFF selectable
- ◇ General specifications
 - Operating temperature
 - 5 to 40 degree C, 20 to 85%RH (non dewing)
 - Power supply AC100 to 240 V, 50/60 Hz
 - Power consumption
 - Max. 250 VA
 - Dimensions 426(W) x 149(H) x 460(D) mm
 - Weight 17 kg or less (within TS SG, modulation and up converter unit)
 - Accessories
 - AC power code 1 set
 - 3P-2P conversion connector 1 set



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