

DS303A215

China DTTB Modulation Option (SAC GB20600-2006 standards)

■ General

The DS303A215 is a modulation unit conforming to DTTB (*1) China terrestrial digital broadcasting standards (GB20600-2006) promulgated by the Standardization Administration of China in August 2006.

The DS303A215 supports all 330 kinds of transmission parameter required by China DTTB standards.

When the DS303A215 is installed on the DS303 series main frame together with the modulation unit, the DS303 series main frame can generate the terrestrial digital television broadcasting signal conforming to China DTTB standards.



DS303 series main frame

*1: Digital Television Terrestrial Broadcasting

■ Features

- ◆ Supports all 330 kinds of transmission parameter required by China DTTB standards.
- ◆ Noise signal can be added. (CN 0.0 to 30.0dB, 0.1dB step)
- ◆ BER (Bit Error Rate) measurement is available.
- ◆ The other digital modulation systems including ATSC, SCTE (USA-QAM, Annex B), DVB-T, DVB-C (Annex A), ISDB-T and ISDB-C (Annex C) can be installed on the same DS303 series main frame. One set of DS303 Series can generate world wide digital TV broadcasting signal.

■ Specifications

- ◆ Standards DTTB China terrestrial digital broadcasting (SAC GB20600-2006)
- ◆ Band width 8MHz
- ◆ Carrier mode Multi, Single-P0, Single-P2
- ◆ Modulation scheme 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM
- ◆ Guard Interval 420 Symbols, VP420 Symbols, 595 Symbols, 945 Symbols, VP945 Symbols
- ◆ LDPC rate 0.4, 0.6, 0.8
- ◆ Time interleave 240 symbols, 720 symbols
- ◆ Input signal DVB-SPI (D-SUB25, Female)
- ◆ Output signal IF signal (BNC-J 75ohm)
- ◆ IF output level -15.0dBm +/- 5dB (0.1dB step)
- ◆ IF output frequency 44.000000MHz +/- 200kHz (1Hz step)
- ◆ Test pattern PRBS9, PRBS11, PRBS15, PRBS20, PRBS23, Ramp, Fixed 00Hex, Fixed 55Hex, Fixed AAHex, Fixed FFHex

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