

VSB Modulator ATSC987

Low cost 1U Rack mounted 8VSB modulator

Ideally designed for use in:

Set top box development

Signal distribution

Low power broadcast applications



ALL THE FEATURES THAT YOU NEED TO MODULATE 8VSB SIGNALS

Supports VHF/UHF bands for all off air applications to test all tuning range.

Supports major cable plans (FCC, IRC, HRC) with level adjustment for cable applications.

Versatile multi Transport Stream inputs:

- SMPTE310M input

- DVB Parallel input

- TTL Parallel input

- Optional ASI input

IF loop-through for combining with external upconverter for use in low power transmission

10MHz reference clock input to add stability to the RF.

Front panel test output

CONTROL DESCRIPTION

CHANNEL SELECT- tuneable to any channel within the selected channel plan.

DATA VALID LIGHT indicates valid ATSC data stream is being received.

BAND SELECT (rear panel) allows you to choose the VHF/UHF channel plan or one of the cable channel plans (FCC, IRC, HRQ).

PARALLEL INPUT SELECT (rear panel) allows you to select the logic level to match the parallel MPEG transport stream input.

POWER SWITCH (rear panel) turns unit on and off.

POWER LED (front panel) indicates power status.

SENCORE

Specifications



Parallel Input:

Data Bit Rate 19.392658 Mbits/sec over LVDS or TTL

ATSC Data Stream:

Input Source: TTL or LVDS (selectable)
One 25 pin D Sub connector
SMPTE310M

Data Bit Rate: 19.392658 Mbits/sec

Modulation:

Modulation type: 8 level VSB Trellis for ATSC Terrestrial
Broadcast

In band SNR: 30 dB without equalization

IF (Loop Through):

Carrier Frequency: 44 MHz (center of channel)
Frequency accuracy: +/- 10 kHz (internal reference)
Connector type: BNC
Connector impedance: 50 Ohms (unprotected)
Power level: -10 to -15 dBmV

RF Output:

Output Frequency: Any channel of the NTSC channel plans
(user selectable)
Channel Plan Selection: VHF/UHF or Cable (FCC, IRC, HRC)
(user selectable)
Frequency accuracy: +/- 10 kHz with internal clock reference
Output connector: "F" connector
Output impedance: 75 Ohms
Output power level: Maximum of +45 dBmV
(Adjustable down to 40 dBmV)
RF Test Point: Same specifications as RF Output
with level being 20 dB lower.

External Clock Input:

User may source an external 10 MHz reference to improve the RF accuracy

Dimensions:

17"x 3.5"x 20", 16lbs



For more information call:
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Ask for DTV product group

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