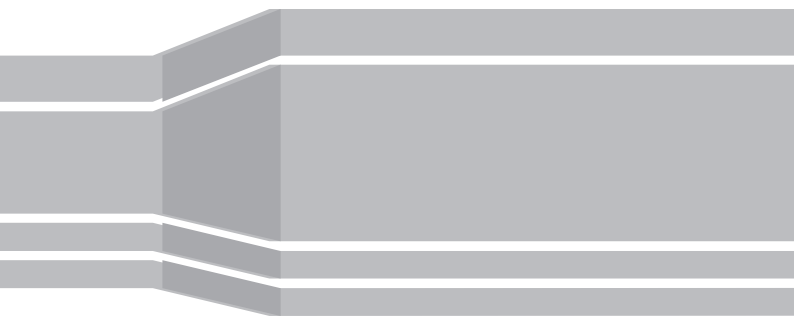
SATLINK®

ST-6502

DVB-T Modulator



USER'S MANUAL

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1. GUIDE

1.1 IMPORTANT SAFETY INSTRUCTIONS

Thank you for choosing our product. Before installation, we would like to remind you some notes, which is very important for operating safely and properly, as follows:

- Be sure to read this user manual before starting your operation.
- When the unit is suddenly moved to a hot area from a cold area, it may cause some problems. In that case, turn off the power, and turn on again after 1-2 hours.
- Keep modulator placed in clean space with sufficient ventilation.
- Do not cover the modulator with or place it on a unit that emits heat.
- Clean the case by a soft cloth with a little washing liquid.
- Do not remove the cover.
- Do not let the unit exposed to extreme heat, cold or humid conditions.
- No liquids or any other materials to come inside of the unit.

1.2 GENERAL DESCRIPTION

This is a composite video input standard definition DVB-T HD modulator which provides COFDM RF signal in VHF and UHF ranges.

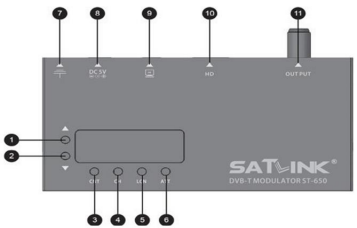
It is designed to achieve HD input, and it only supports standard H.264 encoding.

It is an excellent choice to transport HD signals from TV satellite receivers, surveillance camera or video/media players to a

LCD TV or set-top-box.

It can be used in series with other modulator so the number of channels in the coaxial cable no the SMATV system can be increased as desired.

1.3 PRODUCT OVERVIEW & ILLUSTRATION



No	Description	Function
1	▲	Switch options
2	▼	Switch options
3	CNT	Switch to Country option
4	CH	Switch to Channel option
5	LCN	Switch to LCN option
6	ATT	Switch to Attenuation option
7	⏚	Ground
8	DC 5V	Connect to adaptor input
9	PC	Connect to PC for upgrading
10	HD	HD signal input port
11	OUTPUT	RF output port

2. FEATURES

- High level of integration, high-performance, Full-featured, integrated design
- Single input modulator that converts HD source to a DVB-T channel
- Standard COFDM modulation and H.264 encoding
- Multiple video format compatibility including 720p / 1080p
- Bandwidth: 7/8MHz
- Frequency range: 174 - 230 MHz, 470-862 MHz
- Nixie tube display
- Small size and light weight
- User friendly setup and control

3. QUICK MENU GUIDE

- **Country Setting**

Step 1: Press the CNT key to enter the country selection status;
Step 2: Press ▲▼ key to switch countries.

Country	Display
Europe	
Italy	
Russia	
UK	
Australia	
New Zealand	

- **Channel Setting**

Step 1: Press the CH key to enter the channel selection status;
Step 2: Press ▲▼ key to switch channels.

- **LCN Setting**

Step 1: Press the LCN key to enter the LCN edition status;
Step 2: Press ▲▼ key to change LCN in 0 ~ 999 range.

- **Attenuation Setting**

Step 1: Press the ATT key to enter the attenuation edition status;
Step 2: Press ▲▼ key to change attenuation value in 0 ~ 30dB range.

4. TECHNICAL SPECIFICATION

Modulator	
Standard	DVB-T
Constellation	64QAM
Bandwidth	7 / 8 MHz
Carriers	8K
Guard Interval	1/32
Code Rate	2/3
MER	>28 dB
Frequency Range	174 - 230 MHz, 470-862 MHz
RF Level	70 ~ 100 dBuV
Output Impedance	75Ω
HD	
Compression	H.264 - bitrate 5-15 Mb/s
Video Resolution	1920*1080_60P, 1920*1080_50P; 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
Connector	HD
General	
Power Source	DC 5V / 1A
Operating Temperature	0 ~ +50°C
Dimensions	127mm(L) × 65mm(W) × 17mm(H)
Weight	195g

Note:

1.Since the modulator uses H.264 encoding, users need using DVB-T service which supports standard H.264 encoding for normal display.

2.If the image and sound are not synchronous, please insert HD port again, it will return to normal.

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