

Lantana™ IP/DVB-T2

Small, Standalone, Multi-Function, Frequency Agile, DVB-T2 Modulator with Remote Management Software and Playback Scheduler. Accepts MPEG-2 or H.264 Streams (SPTS or MPTS) from Live IP, ASI, Local USB “Stick”, or SD Memory Card. Perfect Remotely Manageable RF Modulator with Local Storage, for Digital Signage, Trade Shows, Testing, and More. Modify Setup via Any Ethernet Connection – No Computer Required to Operate. Set Up Remotely and Forget.



DVB T2



DVB
Digital Video
Broadcasting

Features

- Input: IP, DVB-ASI, USB, or SMPTE 310M – plays transport streams from RTP/UDP over Ethernet, SD memory card, USB stick, or ASI source
- Accepts MPEG-2 or H.264 Streams (SPTS or MPTS)
- Output: DVB-T2
- RF Output Frequency: 55-2150 MHz
- Payload = Up to 40 Mbps
- Field upgradeable – can be reprogrammed to add additional profiles or new firmware
- Playback Scheduler for Day, Week, or Month
- Ships with Java®-based application GUI
- Programmable RF output level (0.1 dB step)
- White noise addition over modulated signal to have desired C/N ratio
- Sample transport streams available
- Special Bundle Prices for multiple modulations
- Works standalone and will reboot to configured state

Applications

- Digital signage
- In Store Demo of televisions
- Sending HD video to multiple monitors in sports arenas and stadiums
- Set-top box testing
- Laboratory applications

Overview

RF modulators convert video to RF (radio frequency) so the video can be transmitted to a television via its RF input. DVB-T2 is the second generation version of the DVB-T standard used for terrestrial (over the air) broadcasting in Europe and many other areas of the world. DVB-T2 offers 30 to 50 percent higher transmission capacity than DVB-T, plus improved forward error correction.

The Lantana IP/DVB-T2 is a remotely operated, software definable, frequency agile modulator that sends live or recorded video streams to multiple HD monitors via inexpensive RF over coaxial cable. With its included software, one can create a powerful remote signage server. It does not need a computer to feed content to it.

For example, retailers can install one unit at each store, along with a USB thumb drive loaded with numerous videos. Using remote management software, an operator in the home office can program which video will play out on multiple HD monitors at each location. The Lantana IP/DVB-T2 is also suitable for set-top box testing and laboratory applications.

The input can be IP, USB, DVB-ASI, or SMPTE 310M, single or multi program transport streams. One DVB-T2 channel can have two HD streams.

Customers can purchase licenses for additional modulation profiles and upgrade the unit immediately. The Lantana IP/DVB-T2 accepts and plays out MPEG-2 or H.264 streams (SPTS or MPTS) from IP or ASI, or plays transport streams from a local flash-based USB “stick”.

DVEO
Digital Video ExtraOrdinaire™

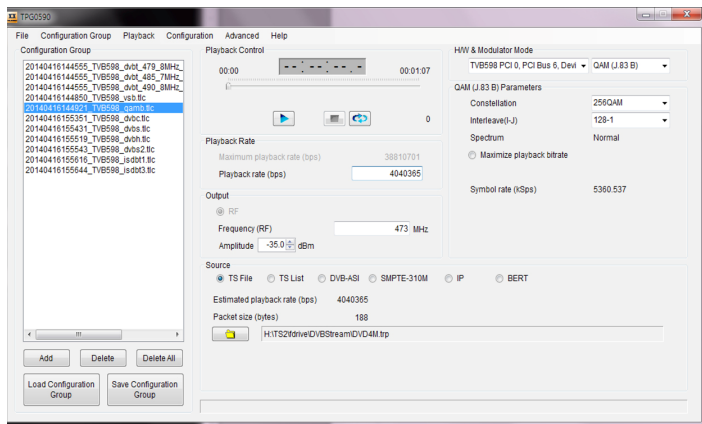
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11409 West Bernardo Court

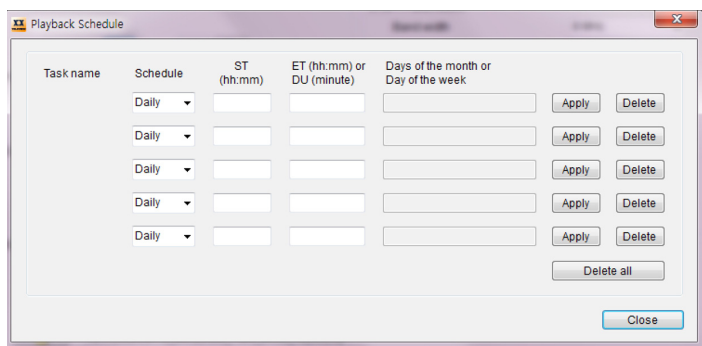
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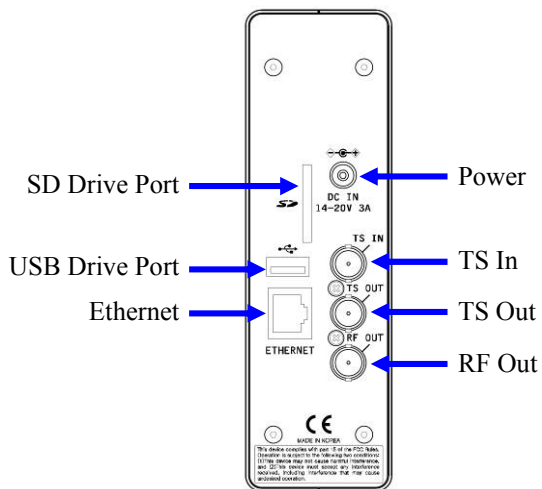


Main GUI



Playout Scheduler

Rear Connectors



Ordering Information

Lantana IP/DVB-T2

Note: Software ships with Lantana IP/DVB-T2 at no additional cost.

Note: This unit is upgradeable with all other modulations, like DVB-T, 8VSB, QAM, DVB-C2, DVB-S/S2, ISDB-Tb, ISDB-S, CMMB, DTMB, T-DMB, etc.

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Specifications

Inputs/Outputs

Input	UDP over IP (CBR only), USB, SD card, DVB-ASI, or SMPTE 310M
Output	DVB-T2
RF output	Frequency: VHF/UHF 55~2150 MHz Level: VHF/UHF -31.5 to 0 dBm Frequency accuracy: Within 3ppm accuracy Attenuation step: 0.1 dB Phase noise <-90dBc/Hz @ 10 KHz
Connectors	75 Ohm BNC
Bitrates	Up to 40 Mbps
Ethernet	10/100/1000 Mbit Ethernet port for remote control and TS input
USB	USB 2.0 for flash memory
SD Card	SDHC class 2/4/6/10 supported

DVB-T2 Specifications

Standard	ETSI EN302 755 compliant
MISO/SISO	SISO/MISO Tx1, Tx2 Support
FFT Size	1K, 2K, 4K, 8K, 16K, and 32K (normal and extended)
Guard Interval	1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
PAPR	None
L1 Modulation	BPSK, QPSK, 16QAM, 64QAM
Pilot Pattern	PP1, PP2, PP3, PP4, PP5, PP6, PP7, PP8
Number of RF (TFS)	Single
FEF	None
PLP Type	Common, Type 1, Type 2 PLP
Number of PLP	Single PLP, Multi PLP (8 PLPs)
PLP Code Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
PLP Modulation	QPSK, 16QAM, 64QAM, 256QAM
Constellation Rotation	Supports at QPSK, 16QAM, 64QAM, 256QAM
PLP FEC Type	16K, 64K
Frame Interval	'1'
Time Interleaving Length	'0' ~ '255'
Time Interleaving Type	'0', and Frame Interval (I_Jump)=1 Support
Bandwidth	1.7/5/6/7/8 MHz mode selectable
Notes	<ul style="list-style-type: none"> * L1 post scrambling is supported * T2-Lite is supported * DVB-T2 modulation from DVB-ASI input is supported * Supports T2MI multiplexed stream * Supports up to 40 Mbps stream * In case of Multi PLP, it is recommended to use T2MI multiplexed stream due to CPU performance issue

Physical & Power

Dimensions (l x w x h)	9.25 x 2.76 x 6.7 inches (235 x 70 x 170 mm)
Weight	3.2 lbs. (1.45 kg)
Power	External 14-20V DC power supply
Operating Temperature	32° to 95° F (0°C to 35°C)
Humidity	10% ~ 90%, Non-condensing
Conformities	FCC, RoHS, CE Mark



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