Lantana™ IP/T-DMB

Features
- Input: ETI files – plays ETI over SD memory card or USB stick
- Accepts MPEG-2 or H.264 Streams (SPTS or MPTS)
- Output: T-DMB (DAB)
- Compatible with ETSI 300401 and ETSI 300799
- RF Output Frequency: 36-2150 MHz
- Payload = Up to 2.43 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 Demos of T-DMB receivers
- Sending HD video to multiple monitors in sports arenas and stadiums
- Set-top box testing
- Laboratory applications

Overview
RF modulators convert a video signal to RF (radio frequency) so the video can be transmitted to a television via its RF input.

T-DMB (Terrestrial Digital Multimedia Broadcasting) is the digital broadcasting standard used in South Korea for regular terrestrial digital TV and mobile TV.

The Lantana IP/T-DMB is a remotely operated, software definable, frequency agile modulator that sends 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/T-DMB 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 T-DMB channel can have two HD streams.

Customers can purchase licenses for additional modulation profiles and upgrade the unit immediately. The Lantana IP/T-DMB 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”.

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**Specifications**

### Inputs/Outputs

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI files, USB, SD card</td>
<td>T-DMB</td>
</tr>
</tbody>
</table>

**RF output**
- Frequency: VHF/UHF 36~2150 MHz
- Level: VHF/UHF -31.5 to 0 dBm
- Freq. accuracy: Within 3 ppm accuracy
- Attenuation step: 0.1 dB
- Phase noise <-90dBc/Hz @ 10 KHz

**Connectors**
- 75 Ohm BNC

**Bitrates**
- Up to 2.43 Mbps

**Ethernet**
- 10/100/1000 Mbit Ethernet port for remote control

**USB**
- USB 2.0 for flash memory

**SD Card**
- SDHC class 2/4/6/10 supported

### T-DMB Specifications

- **Standard**: Compliant with ETS 300401 and ETS 300799
- **Transmission Modes**: DAB transmission modes I, II, III, IV
- **Transmission Mode automatically selected from the ETI stream**
- **Supports ETI (NI, G.703), ETI (NA,G.704) 5592 and ETI (NA, G.704) 5376 file formats**
- **Modulation**: *T-DMB modulation from TS input is not supported*

### Physical & Power

<table>
<thead>
<tr>
<th>Dimensions (length x width x height)</th>
<th>9.25 x 2.76 x 6.7 inches (235 x 70 x 170 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.2 lbs. (1.45 kg)</td>
</tr>
<tr>
<td>Power</td>
<td>External 14-20V DC power supply</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 95° F (0°C to 35°C)</td>
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<tr>
<td>Humidity</td>
<td>10% ~ 90%, Non-condensing</td>
</tr>
<tr>
<td>Conformities</td>
<td>FCC, RoHS, CE Mark</td>
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**Ordering Information**

**Lantana IP/T-DMB**

Note: Software ships with Lantana IP/T-DMB at no additional cost.
Note: This unit is upgradeable with all other modulations, like QAM, CMMB, DTMB, ISDB-Tb, ISDB-S, 8VSB, DVB-C2, DVB-S/S2, DVB-T, DVB-T2, etc.