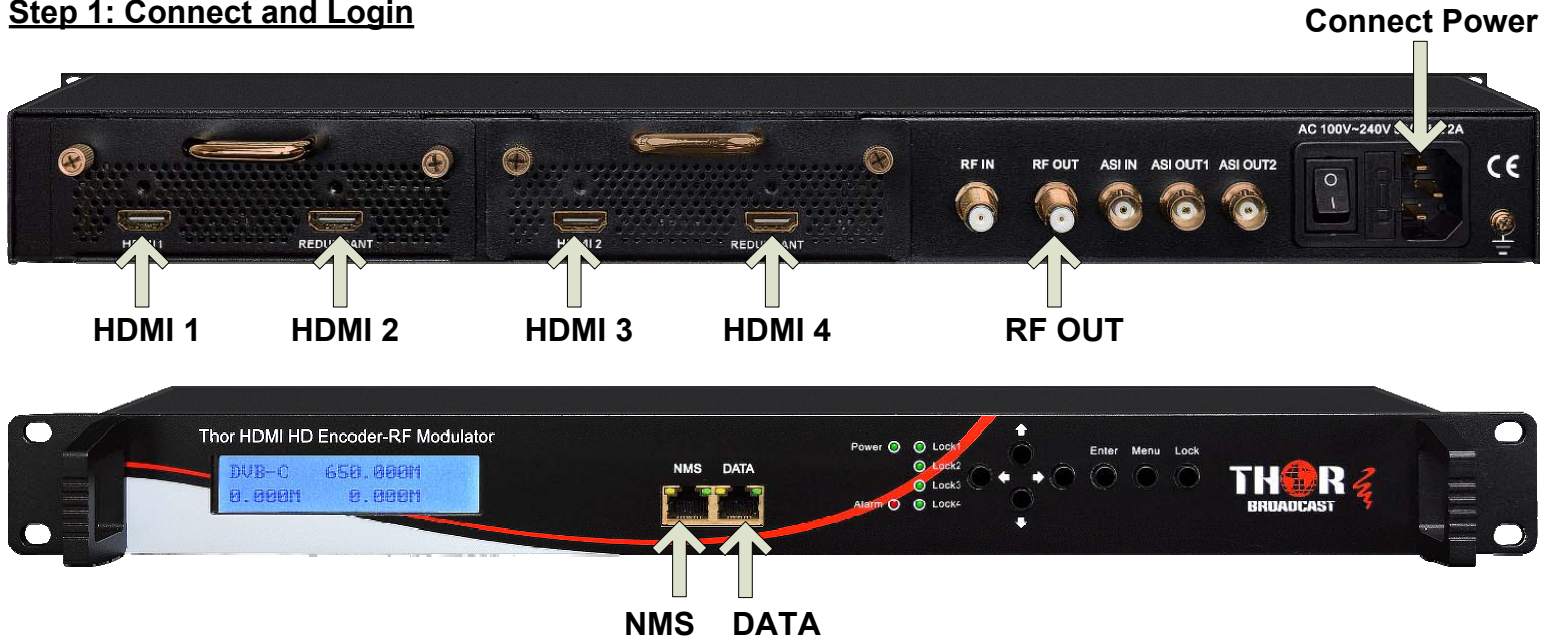


H-1HDMI-ATSC-IPLL

Quick Setup Guide

This guide also applies to models: H-2HDMI-ATSC-IPLL and H-4HDMI-ATSC-IPLL

Step 1: Connect and Login



- Connect the NMS port to your PC using an ethernet cable
- Open web browser and go to <http://192.168.0.136>
- Login/Password: admin/admin

Step 2: Configure Encoders

Parameters

- ▶ Encoder 1
- ▶ Encoder 2
- ▶ Modulator
- ▶ TS Config
- ▶ Output Settings

Select "Encoder 1" from the main menu

Input Lock: ●

Bitrate: 8.558 Mbps

Input Lock must be Green and showing bitrate info

Recommended Settings:

- Video Format: MPEG2
- Video Bitrate: 18Mbps

Field/Picture Encoding: Picture

Low Delay: Normal

H.264 Level: Normal

Share PCR PID: Mode 1

Latency (Input/Output delay):

- Normal: 800ms
- Mode 1: 500ms
- Mode 2: 300ms
- Manual: 250 – 500ms

Note: These settings are TV decoder dependent.

Click "Apply" to save changes

Apply

Click Pencil Icons to modify parameters.

Step 3: Configure Modulator

Parameters

- ▶ Encoder 1
- ▶ Encoder 2
- ▶ **Modulator**
- ▶ TS Config
- ▶ Output Settings

Select "Modulator" from the main menu

#	Frequency	Status	Bit(Act/Max)	
1	57.000 MHz	●	14.7/19.4 M	
2	63.000 MHz	●	14.7/19.4 M	
3	69.000 MHz	●	14.7/19.4 M	
4	75.000 MHz	●	14.7/19.4 M	

Check box to enable channel

Channel Enable:

Start Frequency: (50 ~ 960 MHz)

Click "Apply" to save changes

Start Frequency 57MHz Recommended (See ATSC chart)

Step 4: TS Config

- ▶ Modulator
- ▶ **TS Config**
- ▶ Output Settings

Select "TS Config" from the main menu

Click "Parse program". Detected programs will appear in the left pane.

Choose Output TS 1-4

Output TS 1 ▾ | Stream Select | General

Not Locked → Locked

- 1: Encoder 1 (prog: 1/1) [14.7/17.1M]
 - 1: [101] TV-101
 - 2: Encoder 2 (prog: 0/1) [14.6/17.1M]

Check the box to select program

Click "→" to assign selected program to output

Normal → Overflow

- Output (prog: 1)
 - 1: TV-101 <=CH1_Encoder 1 [101]

Programs assigned to output will appear in the right pane. Click the program name for channel/sub-channel options

Step 5: Output Settings

▶ TS Config

▶ Output Settings

Select "Output Settings" from the main menu

Select top Pencil icon to edit all, Select Pencil icon on the same line to edit individually

#	IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Program	Status	Bit(Act/Max)	
MPTS 1	224.2.2.2	2001	UDP	7	<input type="checkbox"/>		●	14.7/19.4 M	
MPTS 2	224.2.2.2	2002	UDP	7	<input type="checkbox"/>		●	14.7/19.4 M	
MPTS 3	224.2.2.2	2003	UDP	7	<input type="checkbox"/>		●	14.7/19.4 M	
MPTS 4	224.2.2.2	2004	UDP	7	<input type="checkbox"/>		●	14.7/19.4 M	
SPTS 1	224.2.2.2	3001	UDP	7	<input type="checkbox"/>	TV-101(MPTS1)	●	14.7/20.0 M	
SPTS 2	224.2.2.2	3002	UDP	7	<input type="checkbox"/>	TV-201(MPTS2)	●	14.7/20.0 M	

Status will show GREEN when enabled

Enable: Check box to enable channel

Output Bitrate: Mbps

IP Address:

Port:

Protocol:

Pkt Length:

Null PKT Filter:

Program: Select Program

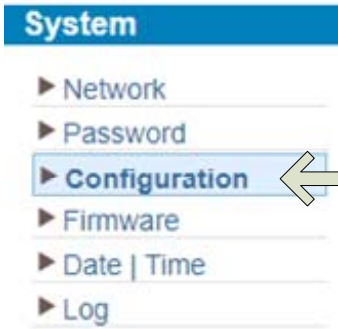
Click "Apply" to save changes

IMPORTANT:
Streams are accessed via the DATA port.

Connect to the stream using the appropriate IP address and port number:

FOR EXAMPLE:
udp://@224.2.2.2:3001

Step 6: Save Configuration



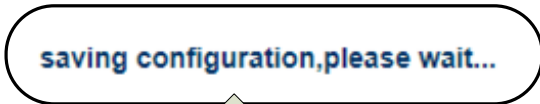
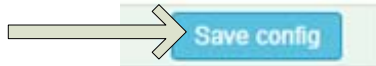
Select
"Configuration"
from the main
menu

IMPORTANT:
**YOU MUST SAVE
CONFIGURATION OR ALL
CHANGES WILL BE LOST
AFTER RESTART**



Select the "Save" tab

Press "Save Config" button



Confirmation message will
appear briefly until saving is
complete



ATSC - US Television Channels (MHz)

Channel	MHz Center Frequency	Channel	MHz Center Frequency	Channel	MHz Center Frequency
2	57	27	551	52	701
3	63	28	557	53	707
4	69	29	863	54	713
5	79	30	569	55	719
6	85	31	575	56	725
7	177	32	581	57	731
8	183	33	587	58	737
9	189	34	593	59	743
10	195	35	599	60	749
11	201	36	605	61	755
12	207	37	611	62	761
13	213	38	617	63	767
14	473	39	623	64	773
15	479	40	629	65	779
16	485	41	635	66	785
17	491	42	641	67	791
18	497	43	647	68	797
19	503	44	653	69	803
20	509	45	659		
21	515	46	665		
22	521	47	671		
23	527	48	677		
24	533	49	683		
25	539	50	689		
26	545	51	695		