

H-4SDI-QAM-IPLL

Quick Setup Guide

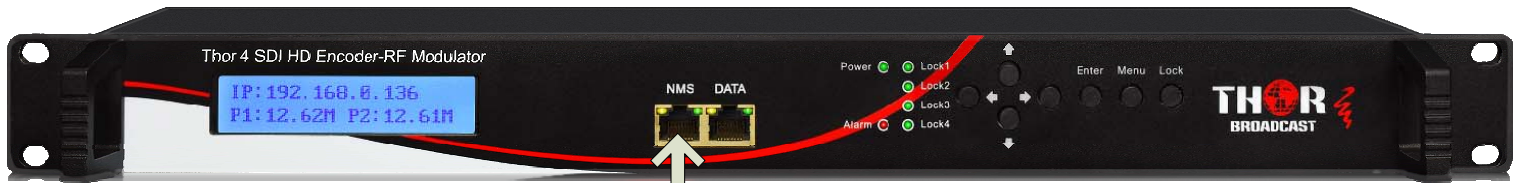
This guide also applies to models: H-2SDI-QAM-IPLL and H-1SDI-QAM-IPLL

Step 1: Connect and Login

Connect Power Cable



Connect SDI inputs 1-4



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

- ▶ Encoder 1 ← SELECT "Encoder 1" FROM MAIN MENU
- ▶ Encoder 2
- ▶ Modulator
- ▶ TS Config
- ▶ Output Settings

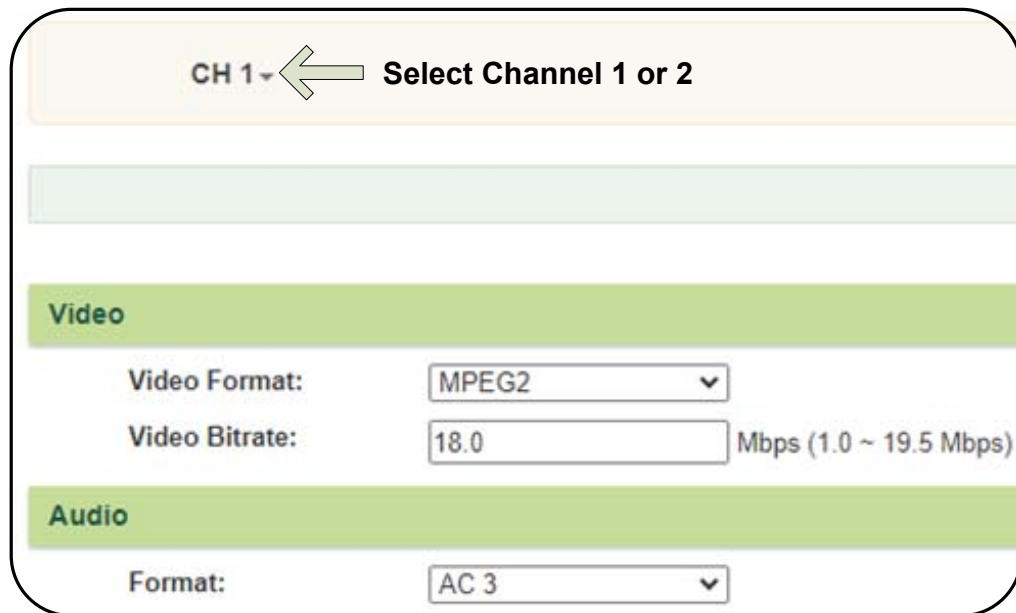
Recommended Settings:

- Video Format: MPEG2
- Video Bitrate: 18.0
- Audio Format: AC3

IMPORTANT:

INPUT LOCK MUST BE GREEN & SHOWING BITRATE INFORMATION

Input Lock: ●
 Bitrate: 18.737 Mbps



Click "Apply" to save changes → Apply

REPEAT THESE STEPS AS NEEDED FOR ENCODER 2










Step 3: Modulator Settings

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

Select "Modulator" from the main menu

IMPORTANT:
STATUS LIGHTS ARE GREEN ONLY WHEN CHANNEL IS ENABLED

Click top pencil icon to edit all

#	Frequency	Constellation	Symbol Rate	Status	Bit(Act/Max)	
1	57 CH 2	256 QAM	5361 Ksps		18.8/38.8 M	
2	63 CH 3	256 QAM	5361 Ksps		0.0/38.8 M	
3	69 CH 4	256 QAM	5361 Ksps		0.0/38.8 M	
4	79 CH 5	256 QAM	5361 Ksps		0.0/38.8 M	

Click pencil icon from the same line to edit individually

Channel 1 Config. [close]

Standard:

Level(CH Carriers): (-20 ~ -3 dBm)

Channel Enable:

Frequency:

Constellation:

Symbol Rate: (3000 ~ 9000 Ksps)

Check box to enable channel

Select desired frequency and channel

Click "Apply" to save changes

Frequency Mode:

#	Frequency
1	57.000 MHz
2	63.000 MHz
3	69.000 MHz

Optional:
Choose your own frequencies by setting frequency mode to "Manual"
(See Frequency Chart on last page)

Step 4: SELECT "TS Config" FROM MAIN MENU

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

1). Select Output TS (1-4)

Output TS 1 | Stream Select | General

Not Locked | Locked

- 1: Encoder1 CH1 (prog: 0/1) [18.7/21.9M]
- 2: Encoder1 CH2 (prog: 0/1) [18.6/21.9M]

2). Discover Inputs:
Click "Parse Program"

Parse program | time out: 60 seconds

3). Click "+" to expand

Not Locked | Locked

- 1: Encoder1 CH1 (prog: 0/1) [18.7/21.9M]
- 2: Encoder1 CH2 (prog: 0/1) [18.7/21.9M]
- 3: Encoder2 CH1 (prog: 0/1) [18.7/21.9M]
- 4: Encoder2 CH2 (prog: 0/1) [14.7/17.1M]

4). Assign outputs:
Click the checkbox selecting the discovered TS program

Not Locked | Locked

- 1: Encoder1 CH1 (prog: 1/1)
- 1: [101] TV-101

5). Press the Blue "→" button to move the selected program from the Input side to the Output side

Normal | Overflow

Output (prog: 1)

- 1: TV-101 <=CH1_Encoder1 CH1 [101]

CA Filter

PID Remap

Refresh Input

Refresh Output

→

6). Click the name of the output program for more options

7). OPTIONAL:
You may set the Major and Minor channels to your preference

Normal | Overflow

Output (prog: 1)

- 1: TV-101 <=CH1_Encoder1 CH1 [101]

Program From Input: CH1_Encoder1 CH1 [101]

Service Name: TV-101

SUB-CHANNEL NUMBER: 1001

Major Channel Number: 1

Minor Channel Number: 1

Source Id: 1

Short Name: prog1

Logic Channel Number: 1

Service Type: 0x01

Service Provider: Encoder 1

PMT PID: 0x0020

PCR PID: 0x0021

MPEG-2 Video PID: 0x0022

AC3 Audio PID: 0x0023

Click "Apply" to save changes

Apply | Close

REPEAT THE ABOVE STEPS AS NEEDED TO CONTINUE ADDING MORE PROGRAMS

Enable VCT Insert (optional)

Click "General"

Check Box to enable VCT Insert

Step 5: IP Preferences

Select "Output Settings" from the main menu

SPTS 1	224.2.2.2	3000	UDP	7	<input type="checkbox"/>	TV-101(MPTS1)	●	18.8/20.0 M	
SPTS 2	224.2.2.2	3002	UDP	7	<input type="checkbox"/>	TV-102(MPTS2)	●	18.8/20.0 M	
SPTS 3	224.2.2.2	3004	UDP	7	<input type="checkbox"/>	TV-201(MPTS3)	●	18.8/20.0 M	
SPTS 4	224.2.2.2	3006	UDP	7	<input type="checkbox"/>	TV-202(MPTS4)	●	14.7/20.0 M	

From the popup window, you can enable and edit your IP preferences

Enable:

Output Bitrate: Mbps

IP Address:

Port:

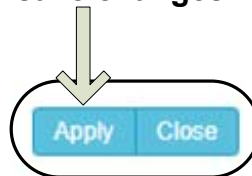
Protocol:

Pkt Length:

Null PKT Filter:

Program:

Click "Apply" to save changes



IMPORTANT:
Streams must be accessed through the DATA port

ACCESS THE STREAM USING THE APPROPRIATE IP ADDRESS & PORT NUMBER:

FOR EXAMPLE:
`udp://@224.2.2.2:3000`

Step 6: SAVE SETTINGS

IMPORTANT:

YOU MUST SAVE CONFIGURATION OR ALL CHANGES WILL BE LOST AFTER RESTART!

System

- ▶ Network
- ▶ Password
- ▶ Configuration
- ▶ Firmware
- ▶ Date | Time
- ▶ Log

1. Click "Configuration"

2. Click the "Save" tab

CONFIGURATION

Save Restore Factory Set Backup Load

When you change settings, you should save the configuration once done.

3. Press "Save config" button

Save config

saving configuration, please wait...

4). Confirmation message will appear briefly until saving is complete.

Scan for more Info:



CATV QAM Channel Center Frequency - 54 MHz to 860 MHz (J.83B)

QAM 256 / Symbol Rate 5.361Msps , QAM 64 / Symbol Rate 5.057Msps

EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency
2	57	42	333	87	603
3	63	43	339	88	609
4	69	44	345	89	615
5	79	45	351	90	621
6	85	46	357	91	627
95	93	47	363	92	633
96	99	48	369	93	639
97	105	49	375	94	645
98	111	50	381	100	651
99	117	51	387	101	657
14	123	52	393	102	663
15	129	53	399	103	669
16	135	54	405	104	675
17	141	55	411	105	681
18	147	56	417	106	687
19	153	57	423	107	693
20	159	58	429	108	699
21	165	59	435	109	705
22	171	60	441	110	711
7	177	61	447	111	717
8	183	62	453	112	723
9	189	63	459	113	729
10	195	64	465	114	735
11	201	65	471	115	741
12	207	66	477	116	747
13	213	67	483	117	753
23	219	68	489	118	759
24	225	69	495	119	765
25	231	70	501	120	771
26	237	71	507	121	777
27	243	72	513	122	783
28	249	73	519	123	789
29	255	74	525	124	795
30	261	75	531	125	801
31	267	76	537	126	807
32	273	77	543	127	813
33	279	78	549	128	819
34	285	79	555	129	825
35	291	80	561	130	831
36	297	81	567	131	837
37	303	82	573	132	843
38	309	83	579	133	849
39	315	84	585	134	855
40	321	85	591	135	861
41	327	86	597		