

Edge IP to QAM Modulator

Quick Setup Guide

This guide applies to models:

- H-IPRF-32-QAM
- H-IPRF-16-QAM

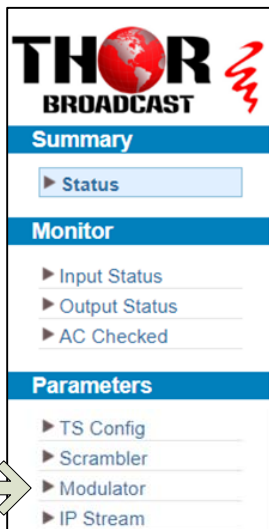
Step 1: CONNECT AND LOGIN

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: SELECT "Modulator" FROM MAIN MENU



- Select the very top pencil icon to edit all

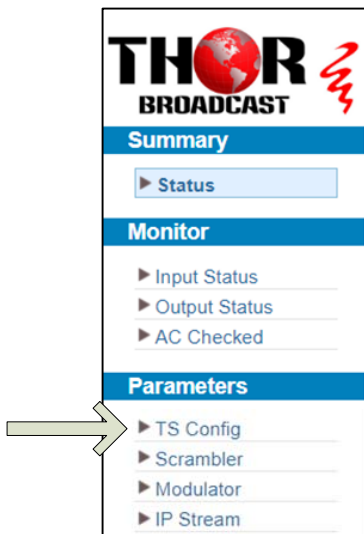
#	Frequency	Constellation	Symbol Rate	Gain offset	Status	Bit(Act/Max)
1	219.000 MHz	256 QAM	5361 Ksps	0.0 dB	●	18.8/38.8 M

Recommended settings:

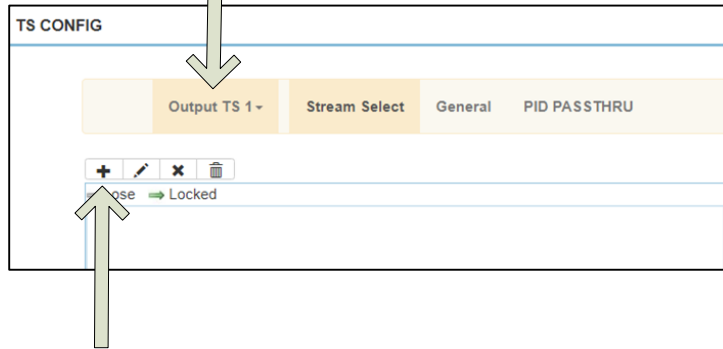
- Standard: J.83B
- Start Frequency: 219 MHz
- Bandwidth: 6Mhz
- Constellation: 256QAM

Standard:	J.83B
Level(All Carriers):	0.0 (-20 ~ +10 dBm)
Channel Enable: ☒	
Start Frequency:	219.000 (50 ~ 960 MHz)
Bandwidth:	6.000 MHz
Constellation:	256 QAM
Symbol Rate:	5361 (3600 ~ 7200 Ksps)
Gain offset:	0.0 (-3 ~ 3 dB)

Step 3: SELECT “TS Config” FROM MAIN MENU



1). Select Output Channel (1-32)



2). Click “+” to add the incoming IP multicast address. (example: 224.2.2.2 port 1001)

Data Interface: DATA-1

Unicast: ☐

IP Address: 224.2.2.2

Port: 1001

Step: ☐ 1

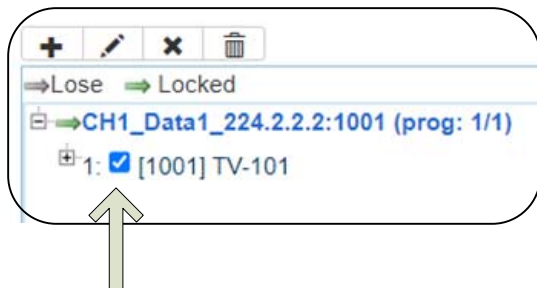
End Port: 1032

IGMP Snooping: V2

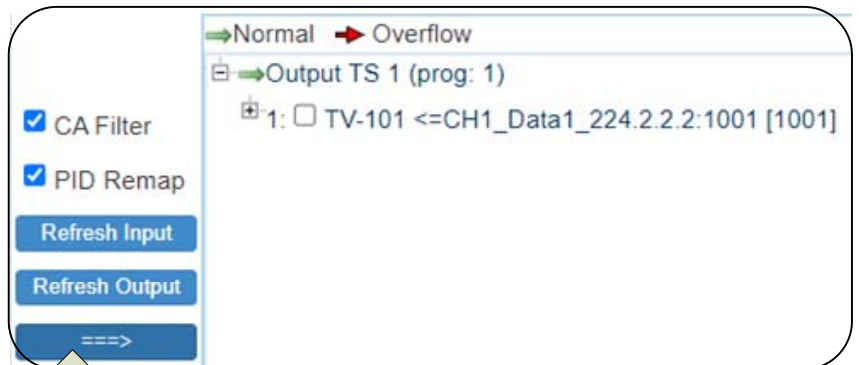
Protocol: UDP

RECOMMENDED SETTING:
IGMP Snooping = V2

3). Discover Inputs: Click “Parse Program” (scans IP Multicast for TS programs)



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



Press the Blue Right Arrow button to move the
selected program from the Input side to the
Output side

REPEAT THE ABOVE STEPS AS NEEDED TO CONTINUE ADDING MORE PROGRAMS

Step 4: HOW TO ENABLE VIRTUAL CHANNELS

Parameters

- ▶ TS Config
- ▶ Scrambler
- ▶ Modulator
- ▶ IP Stream

Continue from the "TS Config" page

1). Select "General" Tab

Output TS 1 ▾ Stream Select General PID PASSTHRU

2). Select Output TS (1-32)

3). Check box to enable VCT Insert

4). Set VCT Mode to "CVCT"

VCT

VCT Insert: ☒ Modulation Mode: 4

VCT Mode: CVCT Carrier Frequency: 500.000 (30-1000MHz)

5). Select "Stream Select" Tab

Output TS 1 ▾ Stream Select General PID PASSTHRU

6). Select Output TS (1-32)

Normal → Overflow

Output TS 1 (prog: 1)

1: ☐ TV-101 <=CH1_Data1_224.2.2.2:1001 [1001]

7). Click on the output program name

Program Information [close]

Program From Input: CH1_Data1_224.2.2.2:1001 [1001]

Service Name: TV-101

Major Channel Number: 1

Minor Channel Number: 1

Source Id: 1

Short Name: prog1

Program Number: 1001

Logic Channel Number: 1

Service Type: 0x01

Service Provider: Encoder 1

PMT Descriptor Tag: ☐ 0x00

PMT Descriptor Data: (Hex)

PMT PID: 0x0020

PCR PID: 0x0021

MPEG-2 Video PID: ☒ 0x0022

AC3 Audio PID: ☒ 0x0023

Apply

8). Major/Minor Channel Numbers may now be set to preference

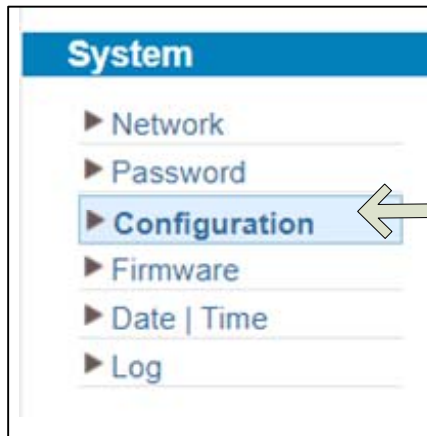
9). Click "Apply" to save changes

REPEAT THE ABOVE STEPS AS NEEDED FOR ALL TS OUTPUTS

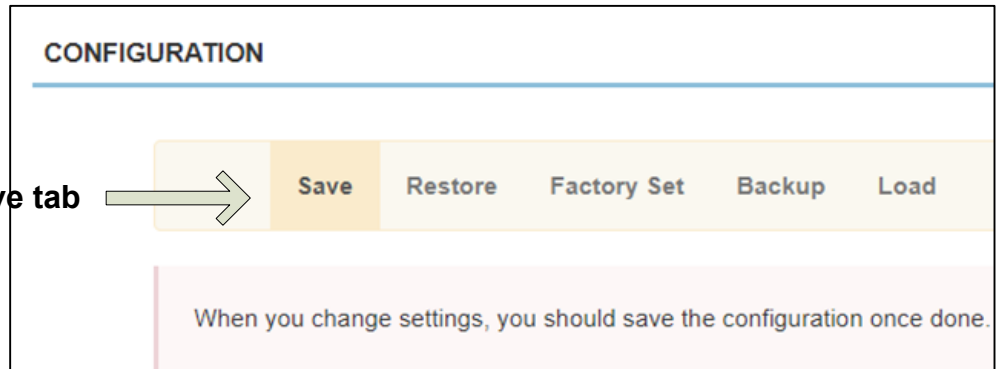
IMPORTANT:

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

Step 5: SAVE SETTINGS



1. Click "Configuration"



2. Click the save tab

3. Press "Save config" button



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 5.361Mpsps , QAM 64 / Symbol Rate 5.057Mpsps

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		