

## H-16QAM-IP

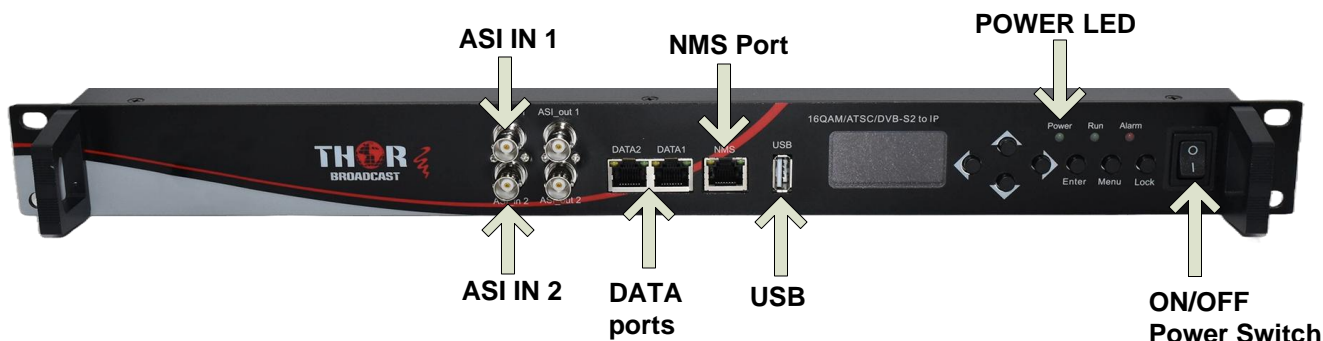
## Quick Setup Guide

### Step 1: CONNECTIONS

Connect included power cable

TOP ROW:  
RF INPUTS  
1-16

BOTTOM ROW:  
LOOP OUTPUTS  
1-16



### Using Loop Jumper Cables:

The unit is supplied with a set of 15 Loop Jumper Cables.

Connect the RF LOOP OUT of the previous channel to the RF IN of the next channel.

RF LOOP 1 → RF IN 2	RF LOOP 9 → RF IN 10
RF LOOP 2 → RF IN 3	RF LOOP 10 → RF IN 11
RF LOOP 3 → RF IN 4	RF LOOP 11 → RF IN 12
RF LOOP 4 → RF IN 5	RF LOOP 12 → RF IN 13
RF LOOP 5 → RF IN 6	RF LOOP 13 → RF IN 14
RF LOOP 6 → RF IN 7	RF LOOP 14 → RF IN 15
RF LOOP 7 → RF IN 8	RF LOOP 15 → RF IN 16
RF LOOP 8 → RF IN 9	

RF SIGNAL IN

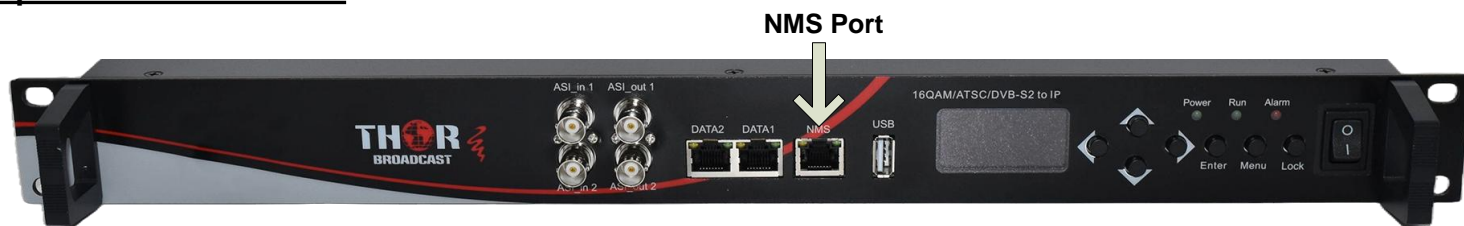


RF SIGNAL OUT

### IMPORTANT:

A small amount of signal loss will occur with each consecutive loop used. A splitter may be used to create separate loops in order to reduce this signal loss.

## Step 2: CONNECT TO PC



- 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 3: CONFIGURE INPUTS

### Parameters

► Tuner

► TS Config

► USB Media

SELECT "TUNER" FROM THE MAIN MENU

CLICK "EDIT"

1	J.83B	0.000 Mbps	Quality: 0%	Strength: 0%	Power: -91.5	C/N: 0	BER: 1.0E-09	Frequency: 63 MHz Symbolrate: 5057 Ksps Constellation: 64 QAM	Edit
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Standard:	J.83B	▼
Frequency:	63.000	MHz
Constellation:	64 QAM	▼
Symbolrate:	5057	Ksps

SELECT MODULATION STANDARD

ENTER THE DESIRED FREQUENCY FOR THE APPROPRIATE CHANNEL (SEE QAM FREQUENCY CHART)

Apply

CLICK "APPLY" TO SAVE

1	J.83B	26.971 Mbps	Quality: 99%	Strength: 86%	Power: -14	C/N: 39.25	BER: 0.0E+00	Frequency: 63 MHz Symbolrate: 5057 Ksps Constellation: 64 QAM	Edit
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You should now see signal quality/strength information, the link light will go green, and show your bitrate. Repeat these steps as needed for the rest of the channels.

## Step 4: PROGRAM SELECTION

1). CLICK "TS CONFIG"  
FROM THE MAIN MENU

### Parameters

► Tuner

► **TS Config**

► USB Media

2). Choose  
DATA1 or  
DATA2

DATA 1 ▾

DATA 1

DATA 2

3). SELECT A CHANNEL AND  
CLICK "PARSE PROGRAM"

Parse program

time out: 60 seconds

4). CLICK "+" TO EXPAND  
DETECTED PROGRAMS

→ Lose	→ Locked
➔1 Tuner DVBC (prog: 0/1)	[6.974 M]
➔2 Tuner DVBC (prog: 0)	[6.974 M]
➔3 Tuner DVBC (prog: 0)	[6.974 M]

5). CHECK THE BOX TO  
SELECT THE PROGRAM

→ Lose	→ Locked
➔1 Tuner DVBC (prog: 1/1)	[6.318 M]
➔1: <input checked="" type="checkbox"/> THOR FI	
➔2 Tuner DVBC (prog: 0)	[6.318 M]
➔3 Tuner DVBC (prog: 0)	[6.318 M]
➔4 Tuner DVBC (prog: 0)	[6.318 M]
➔5 Tuner DVBC (prog: 0)	[6.318 M]
➔6 Tuner DVBC (prog: 0)	[6.318 M]
➔7 Tuner DVBC (prog: 0)	[6.318 M]
➔8 Tuner DVBC (prog: 0)	[6.318 M]

☒ CA Filter

☒ PidRemap

Refresh Input

Refresh Output

==>

6). CLICK "→" BUTTON

→ Normal	→ Overflow
➔Output (prog: 1)	
➔1: <input type="checkbox"/> THOR FI => Tuner1	

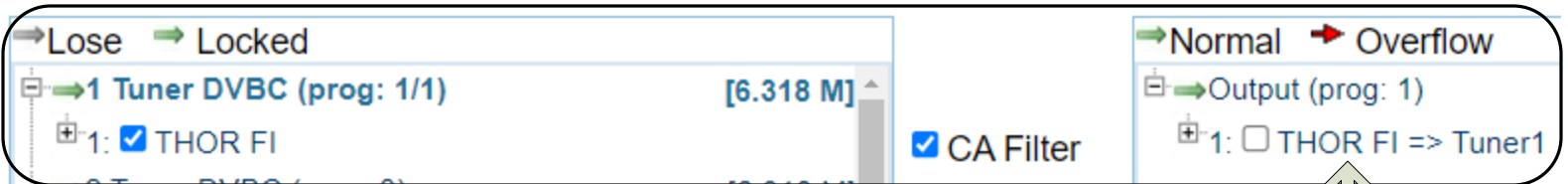
7). PROGRAM WILL SHOW  
UNDER OUTPUT

**IMPORTANT:**  
CONFIRM  
THAT  
CHANNELS  
ARE  
SHOWING  
BITRATE  
INFO

REPEAT THESE STEPS AS NEEDED FOR THE REST OF THE CHANNELS

## Step 5: STREAMING

CONTINUE FROM "TS CONFIG" SCREEN



1). CLICK THE PROGRAM NAME

2). A POPUP WINDOW WILL SHOW THE IP STREAMING INFORMATION FOR THAT PROGRAM

Program From Input: CH1\_Tuner 1 [2]

Service Name:

Program Number:

IP-Port:

Protocol:

TS ID:

ON ID:

Logic Channel Number:

Biss Key:

Service Type:

Service Provider:

PMT Descriptor Tag: ☐

PMT Descriptor Data:  (Hex)

PMT PID:

PCR PID:

MPEG-2 Video PID:  ☒

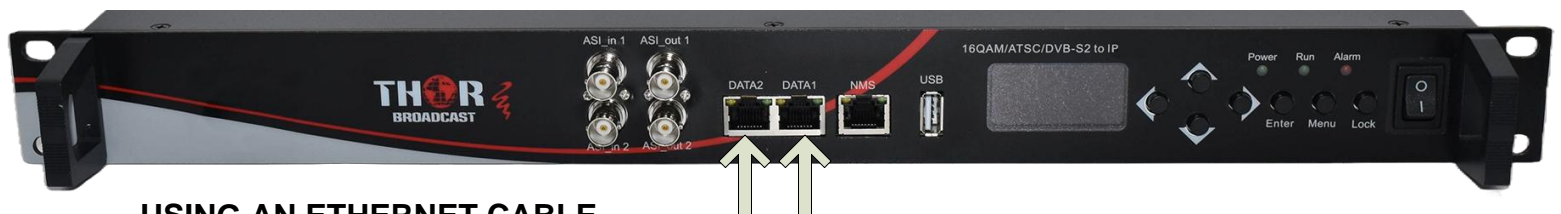
AC3 Audio PID:  ☒

DEFAULT STREAMING IP:

**224.2.2.2**

DEFAULT PORTS:

CH#	Data1	Data2
1	2000	3000
2	2002	3002
3	2004	3004
4	2006	3006
5	2008	3008
6	2010	3010
7	2012	3012
8	2014	3014
9	2016	3016
10	2018	3018
11	2020	3020
12	2022	3022
13	2024	3024
14	2026	3026
15	2028	3028
16	2030	3030



USING AN ETHERNET CABLE,  
CONNECT YOUR STREAMING  
DEVICE(S) TO PORT DATA1  
AND/OR DATA2

DATA2 DATA1

ACCESS THE STREAM USING THE APPROPRIATE IP ADDRESS & PORT NUMBER:  
FOR EXAMPLE: `udp://@224.2.2.2:2000`

## Step 6: SPTS Work Mode

**System**

- ▶ Network
- ▶ Password
- ▶ Configuration
- ▶ **Firmware**
- ▶ Log
- ▶ Reboot

1. Click “Firmware” from the main menu

2. Select “SPTS”

3. Click “Apply”

Work Mode:

SPTS

Apply

**NOTE:** The unit can operate in two different modes: SPTS, where each TS program has its own multicast IP address, or Bypass, where all programs from each tuner share one MPTS (multi-program transport stream) IP address, and all available programs are muxed on this single IP address. In most cases, SPTS is the mode commonly used.

After update, you must reboot device manually.

## Step 7: SAVE CONFIGURATION

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

**System**

- ▶ Network
- ▶ Password
- ▶ **Configuration**
- ▶ Firmware
- ▶ Log
- ▶ Reboot

1. Click “Configuration” from the main menu

Save

Restore

Factory Set

Backup

Load

When you change the parameter,you should save configuration ,otherwise the new configuration will lost after reboot.

2. Press “Save config” button

Save config

saving configuration,please wait...

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

Scan for more info:



## CATV QAM Channel Center Frequency - 54 MHz to 860 MHz

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	119	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		