

H-16QAM-IP

Quick Setup Guide

Step 1: CONNECTIONS

- Connect the power cable

TOP ROW:
RF INPUTS
1-16

BOTTOM ROW:
LOOP OUTPUTS
1-16



- ON/OFF Power Switch

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 Input ← SELECT "TUNER INPUT" FROM THE MAIN MENU
- ▶ ASI Input
- ▶ TS Config

CLICK "EDIT"

1	Tuner DVBC	Quality : <div style="width: 0%; height: 10px; background-color: gray;"></div> 0%	C/N: 0.00 dB	Power: -80.50 dBm	0.000 Mbps	Freq: 750.000MHz	Edit
		Strength: <div style="width: 0%; height: 10px; background-color: gray;"></div> 0%	BER: 1.00e+00				

Detail Parameter

Demodulation: J.83B ← SELECT DEMODULATION TYPE

Frequency: (60-890) 177.000 MHz ← ENTER THE DESIRED FREQUENCY FOR THE APPROPRIATE CHANNEL (SEE QAM FREQUENCY CHART)

Symbolrate: (1000-9000) 5057 Ksps

Constellation: 64 QAM

Channel Name: Tuner DVBC

Set

Close

CLICK "SET" TO SAVE

1	Tuner DVBC	Quality : <div style="width: 99%; height: 10px; background-color: black;"></div> 99%	C/N: 37.75 dB	Power: -21.50 dBm	6.839 Mbps	Freq: 177.000MHz	Edit
		Strength: <div style="width: 78%; height: 10px; background-color: black;"></div> 78%	BER: 0.00e+00				

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

CLICK "SPTS SELECT" FROM THE MAIN MENU

Parameters

- ▶ Tuner Input
- ▶ ASI Input
- ▶ TS Config
- ▶ Biss
- ▶ SPTS select

→ Lose	→ Locked
→1 Tuner DVBC (prog: 0)	[6.917 M]
→2 Tuner DVBC (prog: 0)	[6.917 M]
→3 Tuner DVBC (prog: 0)	[6.917 M]
→4 Tuner DVBC (prog: 0)	[6.917 M]
→5 Tuner DVBC (prog: 0)	[6.917 M]
→6 Tuner DVBC (prog: 0)	[6.917 M]
→7 Tuner DVBC (prog: 0)	[6.917 M]
→8 Tuner DVBC (prog: 0)	[6.917 M]
→9 Tuner DVBC (prog: 0)	[6.917 M]
→10 Tuner DVBC (prog: 0)	[6.917 M]
→11 Tuner DVBC (prog: 0)	[6.917 M]
→12 Tuner DVBC (prog: 0)	[6.917 M]
→13 Tuner DVBC (prog: 0)	[6.917 M]
→14 Tuner DVBC (prog: 0)	[6.917 M]
→15 Tuner DVBC (prog: 0)	[6.917 M]
→16 Tuner DVBC (prog: 0)	[6.917 M]
→17 ASI (prog: 0)	[0.000 M]
→18 ASI (prog: 0)	[0.000 M]

IMPORTANT:
CONFIRM THAT CHANNELS ARE SHOWING BITRATE INFO

SELECT A CHANNEL AND CLICK "PARSE PROGRAM"

Parse program time out: 60 seconds

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]

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]

CA Filter
 PidRemap
Refresh Input
Refresh Output
==>

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

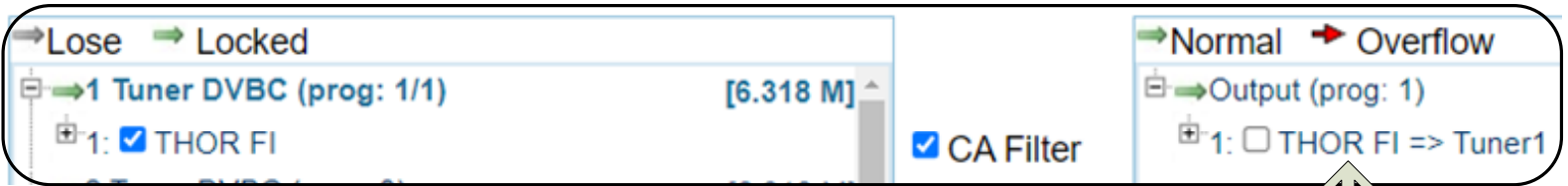
PROGRAM WILL SHOW UNDER OUTPUT

CLICK "→" BUTTON

REPEAT THESE STEPS AS NEEDED FOR THE REST OF THE CHANNELS

Step 5: STREAMING

CONTINUE FROM "SPTS SELECT" SCREEN



CLICK THE PROGRAM NAME

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

Program Name:	THOR FI
Program Number:	32
GE1 Addr:	224.2.2.2
GE1 Port:	3000
GE2 Addr:	224.2.2.2
GE2 Port:	3002
Protocol:	UDP
Biss Key:	---
Service Type:	0x01
Service Provider:	
PMT PID:	0x0020
PCR PID:	0x0021
MPEG-2 Video PID: <input checked="" type="checkbox"/>	0x0022
AC3 Audio PID: <input checked="" type="checkbox"/>	0x0023

DEFAULT
STREAMING IP:
224.2.2.2

DEFAULT PORTS:

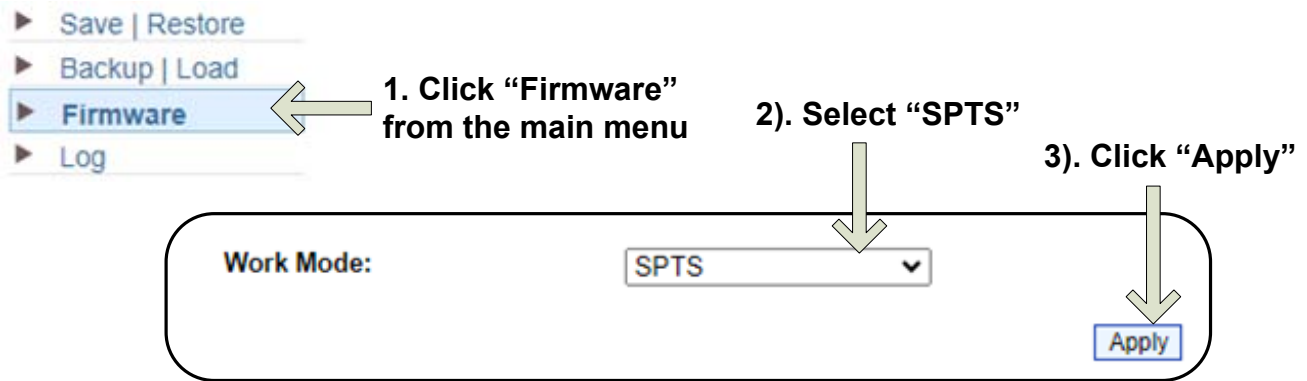
CH#	GE1	GE2
1	3000	3002
2	3004	3006
3	3008	3010
4	3012	3014
5	3016	3018
6	3020	3022
7	3024	3026
8	3028	3030
9	3032	3034
10	3036	3038
11	3040	3042
12	3044	3046
13	3048	3050
14	3052	3054
15	3056	3058
16	3060	3062



USING AN ETHERNET CABLE, CONNECT YOUR STREAMING DEVICE(S) TO PORT GE1 AND/OR GE2

ACCESS THE STREAM USING THE APPROPRIATE IP ADDRESS & PORT NUMBER:
FOR EXAMPLE: `udp://@224.2.2.2:3008`

Step 6: SPTS Work Mode

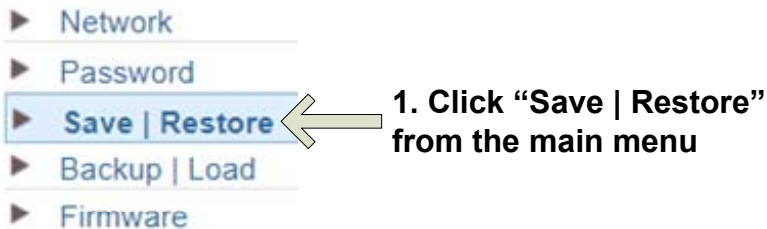


NOTE: The unit can operate in two different modes: SPTS, where each TS program has its own multicast IP address, or MPTS, where all programs from each tuner share one MPTS (multi-program transport stream) IP address, and all available programs are muxed on this single IP address. In most cases, SPTS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

After update, you must reboot device manually.

Step 7: SAVE CONFIGURATION

System



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

SAVE CONFIGURATION

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

2. Press "Save config" button

Save config

An arrow points from the instruction to the 'Save config' button.

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		