Edge IP to QAM Modulator

Quick Setup Guide

This guide applies to models:

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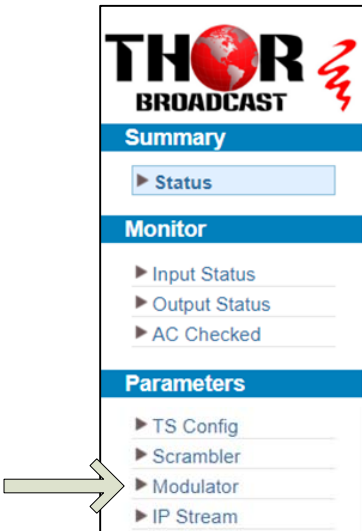- **H-IPRF-16-QAM**

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
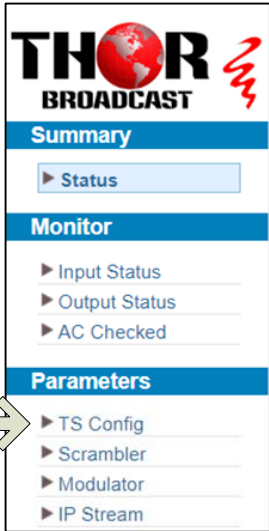
1). Select Output Channel (1-32)

THOR BROADCAST

Summary
- Status

Monitor
- Input Status
- Output Status
- AC Checked

Parameters
- TS Config
- Scrambler
- Modulator
- IP Stream

TS CONFIG

Output TS 1 ▾   Stream Select   General   PID PASSTHRU

+ ✎ ✗ 🗑
se ⇒ Locked
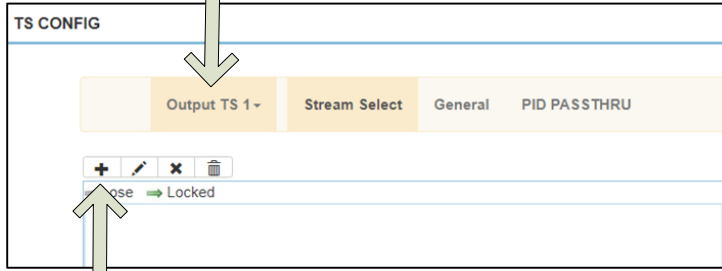
**2). Click "+" to add the incoming IP multicast address.
(example: 224.2.2.2 port 1001)**

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)

Parse program   time out: 60   seconds

+ ✎ ✗ 🗑
⇒Lose ⇒ Locked
⊟⇒CH1_Data1_224.2.2.2:1001 (prog: 1/1)
  ⊞1: ☑ [1001] TV-101
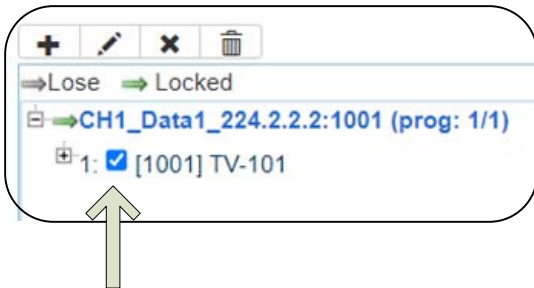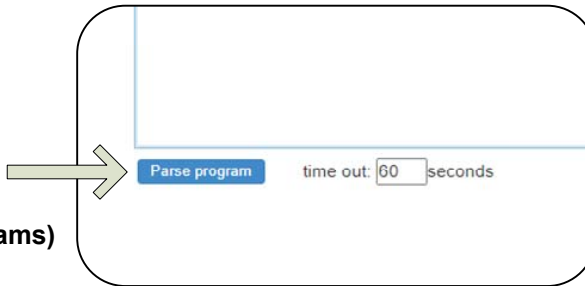
**4). Assign outputs:
Click the checkbox selecting the
discovered TS program**

⇒Normal ➡ Overflow
⊟⇒Output TS 1 (prog: 1)
  ⊞1: ☐ TV-101 <=CH1_Data1_224.2.2.2:1001 [1001]

☑ CA Filter
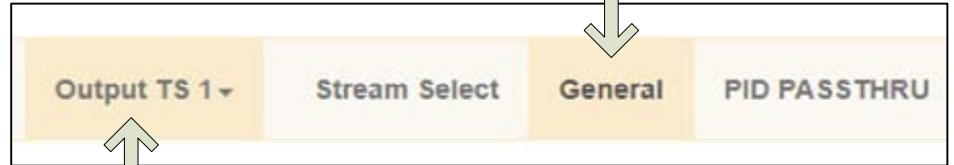☑ PID Remap
Refresh Input
Refresh Output
===>
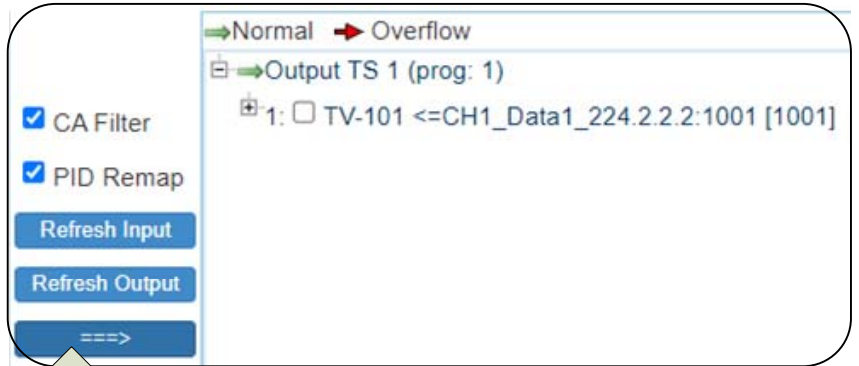
**Press the Blue Right Arrow button to move the
selected program from the Input side to the
Output side**

REPEAT THE ABOVE STEPS AS NEEDED TO CONTINUE ADDING MORE PROGRAMS

Step 4: HOW TO ENABLE VIRTUAL CHANNELS

1). Select "General" Tab

Parameters
- ▶ TS Config
- ▶ Scrambler
- ▶ Modulator
- ▶ IP Stream
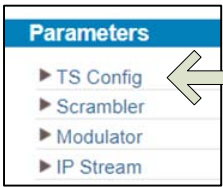
Continue from the "TS Config" page

| 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: | ☑ | VCT Mode: | CVCT ▾ |
| Modulation Mode: | 4 | Carrier Frequency: | 500.000 (30-1000MHz) |

5). Select "Stream Select" Tab

| Output TS 1 ▾ | Stream Select | General | PID PASSTHRU |

→Normal → Overflow
⊟→Output TS 1 (prog: 1)
　⊞ 1: ☐ TV-101 <=CH1_Data1_224.2.2.2:1001 [1001]
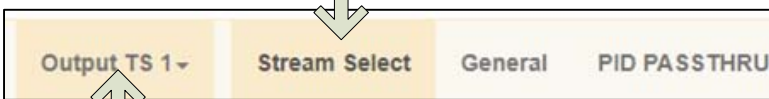
6). Select Output TS (1-32)
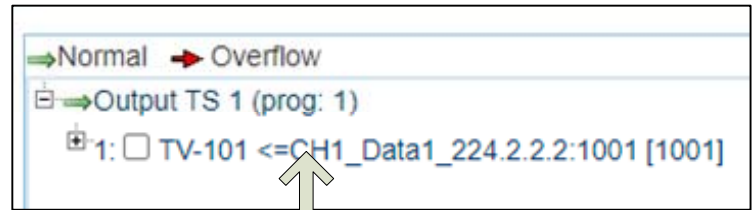
7). Click on the output program name

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

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

Apply

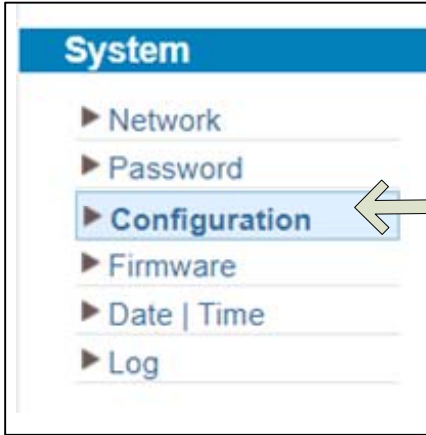**9). Click "Apply" to save changes**

REPEAT THE ABOVE STEPS AS NEEDED FOR ALL TS OUTPUTS
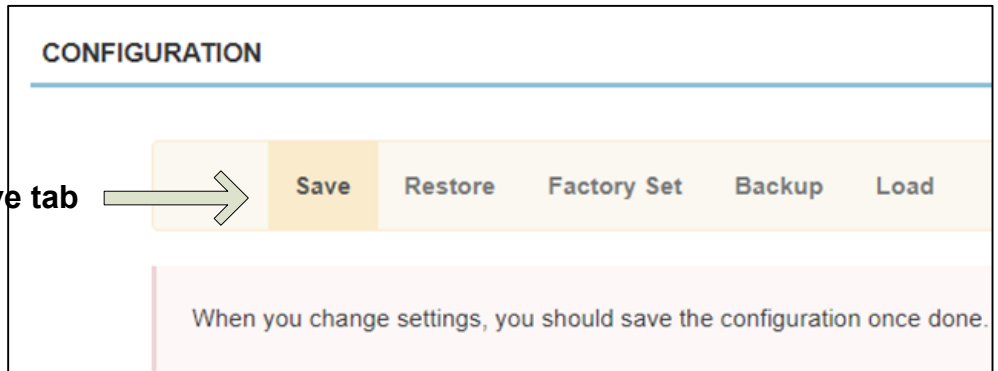
<div style="border:1px solid black; text-align:center">

IMPORTANT:

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

</div>

Step 5: SAVE SETTINGS

System

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

1. Click "Configuration"

CONFIGURATION

| Save | Restore | Factory Set | Backup | Load |

2. Click the save tab

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:

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Quick Setup Guide

THOR BROADCAST   https://thorbroadcast.com   800-521-8467   sales@thorfiber.com