



Thor Fiber H-H264IP-E NETWORK ENCODER QUICK START GUIDE

Thank you for your purchase of the Thor Broadcast H-H264IP-E Network Encoder.
Please check the contents of your encoder box for the following:

1. (1) Network Encoder
2. (1) 12v DC Power supply.
3. (1) HDMI cable.
4. (1) Quick Start Guide.

If you are missing any of these items please contact support at 1-800-THOR(8467) EXT2 or email us at support@thorbroadcast.com.

*For the full documentation for your recent purchase please visit:

<https://thorbroadcast.com/upload/files/237/h-h.264ip-e.pdf>

Before We Begin:

The Quick-Start Guide should get you up and running with your new Network Encoder in a matter of minutes. To get started please make sure you have:

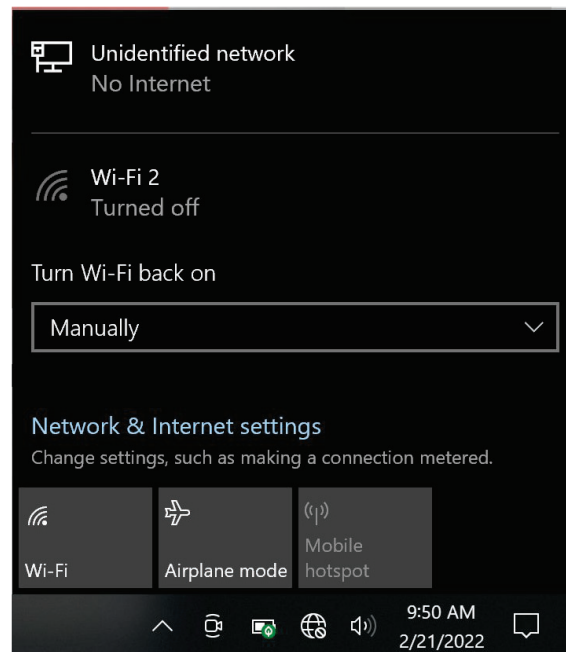
1. a computer with an Ethernet port
2. an Ethernet cable (CAT5/6)
3. administrative access or privileges so that you can temporarily change the computers IP address and subnet.

Before configuring the device we need to change your local computers IP address to the same subnet as your new Network Encoder. The default IP address for the Network Encoder is **192.168.200.64**. In order for the devices to communicate, please make sure that your local computer is set up on the same subnet.

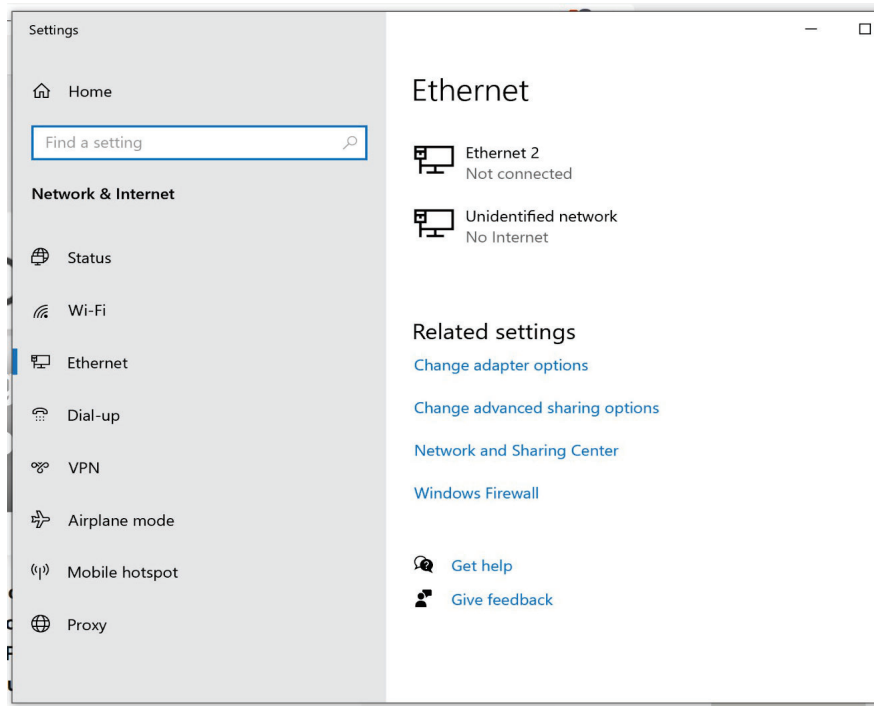
To do this you are going to first click on the network icon in your lower right taskbar.



Once you click on either of these icons you will be presented with a network connections menu similar to this:



Please click on the item labeled Unidentified network. You should now see a screen similar to this one:



Click on the Network labeled Unidentified network and then click on the Edit button.

IP address

Subnet prefix length

Gateway

Preferred DNS

Alternate DNS

IPv6
 Off

Save Cancel

Save

When you have finished typing the above values click the button. You should now be able to access the network encoders management portal.

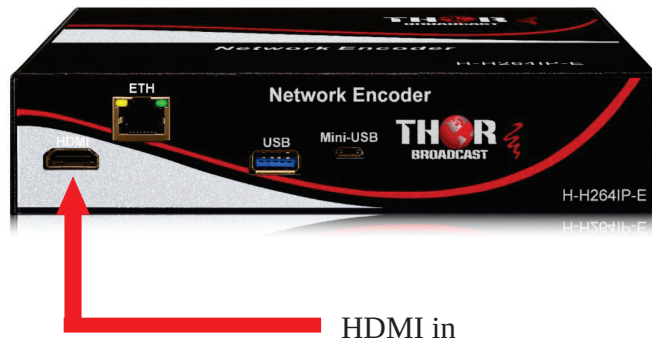
Quick-Start Guide:

The following steps should get you up and running with minimal configuration. For more complicated applications please consult the device manual or contact us for support. Thank you for choosing Thor Broadcast for your broadcasting needs.

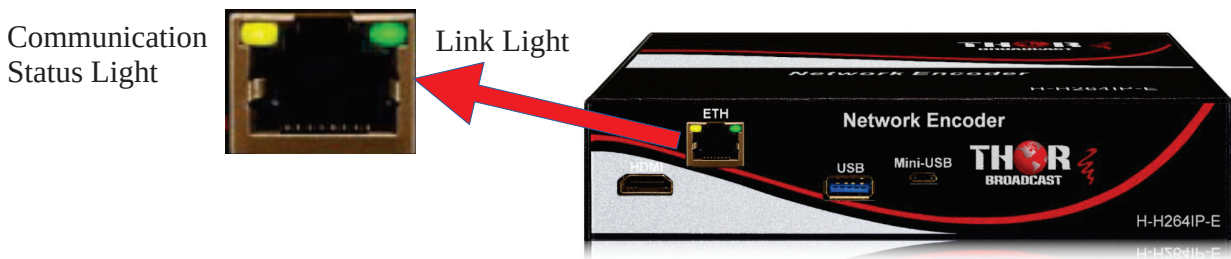
1. Connect the 12 Volt DC power adapter to the back of the Encoder.



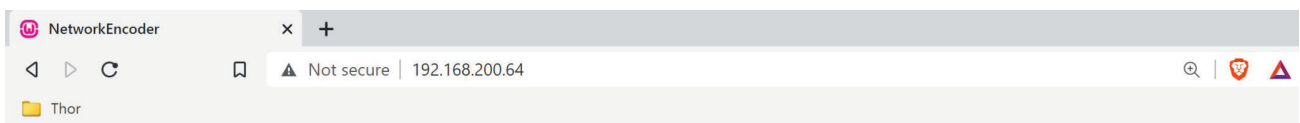
2. Connect the HDMI cable from your video device output to the HDMI input on the front of the unit.



3. Connect an Ethernet cable (Cat5/6) from your computer directly into the front of your Network Encoder into the port labeled **ETH**. If everything is configured correctly you should see the Network Link light come on solid green on the ETH port. And momentarily you should see a communication light start blinking orange on the left. This indicates that your computer and device are communicating.



3. To access the Device Configuration Page please open a browser on your computer and type: **192.168.200.64** into the URL (address bar) and press enter.



4. That will take you to the devices network management systems login page. The default credentials are: **admin** for the user name and: **admin** for the password.

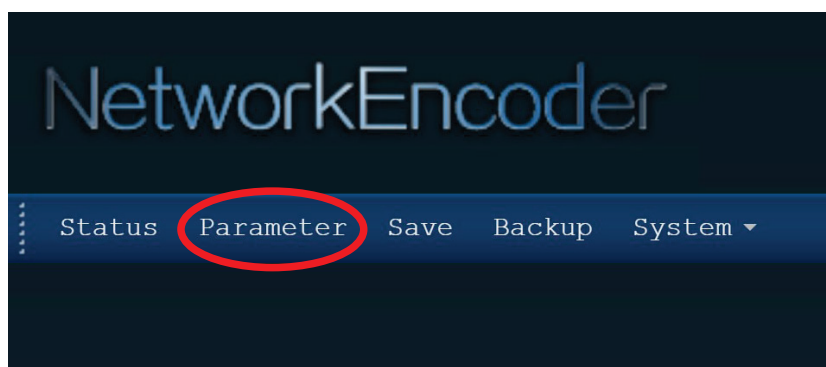
UserName:

Password:

5. Once logged in you will be routed to the devices status information page. Here you will find information on your devices status, software and hardware version numbers and current configuration.

STATUS INFORMATION			
Status	CH1	CH2	CH3
Work Status			
Alarms	none	none	none
Work Time	0days-03:43:19	0days-03:43:17	0days-03:43:15
Input Resolution	1920x1080I@59.94Hz	1920x1080I@59.94Hz	1920x1080I@59.94Hz
Output Resolution	1280x720P@AUTO	1280x720P@AUTO	1280x720P@AUTO
Output BitRate	3000kbps	3000kbps	3000kbps
Output Url	udp://224.2.2.2:8880	udp://224.2.2.2:8881	udp://224.2.2.2:8882
Version	Software 1.4 Hardware 1.2		

6. On this page you are going to click on the parameter link at the upper left corner of the page.



Here you will be presented with the Parameters page. Access Channels 1/2/3: From the menu on the top side of the web GUI, click “CH1” or “CH2” or “CH3”. From there you can set the interface and the encoding parameters for the output channel. The Thor Broadcast H-H264IP-E supports up to 3 streams out with different protocol, resolution, bit-rate, etc.

PARAM SETTING		CH1	CH2	CH3
input src				
Work Status		Usb Storage	unplugin usb	
Input Src	hdmi	Usb Playmode	file_cycle	
video				
Encode Type	H.264	Resolution	1280 x 720P	
Screen Ratio	16 x 9	GOP Structure	IP	
Profile	MP	Level	Level 4.0	
Bitrate (kbps)	3000	MaxBitrate (kbps)	6000	
audio				
Encode Type	MPEG2-AAC	Bit Rate	128	
pid				
Video PID(0x)	1010	Audio PID(0x)	1011	
PCR PID(0x)	1013			
Output				
Protocol	udp	Dest IP Addr	224.2.2.2	
Path Name	output0	Time Slice	5	
<input type="button" value="Apply"/> <input type="button" value="Stop"/>				

7. Click on the CH1, CH2, or CH3 tabs at the top of the page to adjust the settings for the respective channel.



Once you have made your channel selection, there are 2 basic parameters that need to be set or adjusted depending on your specifications.

The first of these is the output parameter. This is accessed by clicking on the drop-down menu shown below:

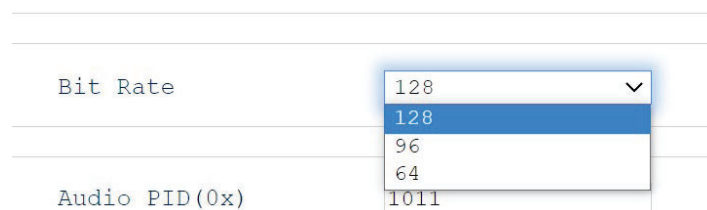
Output	
Protocol	udp
Path Name	

udp
 udp
 rtp
 rtmp
 hls
 http
 rtsp
 usb

8. Click and select the protocol you would like to encode to and then click the apply button to change the protocol setting.



If needed you can adjust each of the 3 CH bit rates. This can be accessed by clicking on the drop-down menu shown below:

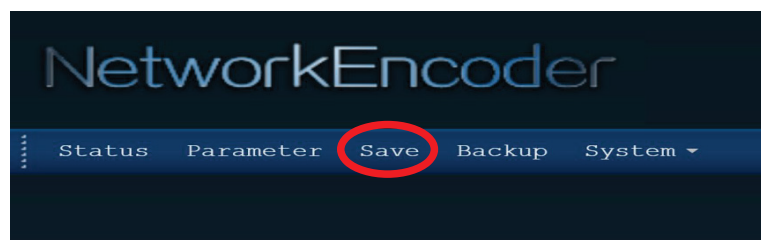
A screenshot of a web form. The "Bit Rate" field has a drop-down menu open showing options: 128 (selected), 96, 64, and 1011. The "Audio PID(0x)" field is visible below it.

Bit Rate	128
Audio PID(0x)	1011

9. Select the bit-rate that is going to fit your specification and click on the apply button to apply the new bit-rate setting.



10. When you have applied the settings on the parameters page, navigate back to the upper left and click on the Save menu link. This will ensure that your device will retain it's settings after you power the device off or reboot the device.



That is a basic configuration. You are now ready to view your video over IP in your preferred protocol. Please see the following example syntax for each of the supported outputs.

HLS Protocol:

Http://IP address: IP port/program name.

m3u8

(e.g. http://192.168.200.66:8080/output0.m3u8

RTMP Protocol:

Rtmp: //IP address: IP port/program name (e.g. rtmp://192.168.200.55/live/output0)

UDP Protocol:

Udp: //@IP address: IP port (e.g. udp://@192.168.0.137:12002)