

# WyreStorm NHD-610-RX NetworkHD 610 Series 4K60 10GbE SDVoE Encoder

## AUDIO & VIDEO

### Inputs

#### TX:

1x HDMI 2.0  
1x 5-pin Balanced Analog Audio

#### RX:

1x HDMI 2.0 (Switchable)  
1x 5-pin Balanced Analog Audio  
1x 10GbE 8-Pin RJ45

### Outputs

#### TX:

1x HDMI 2.0 Loop Out  
1x 5-pin Balanced Analog Audio Out  
1x 10GbE 8-Pin RJ45

#### RX:

1x HDMI 2.0 Output  
1x 5-pin Balanced Analog Audio Out

### Maximum Pixel Clock

600MHz

### Output Video Encoding

SDVoE Pixel Pipeline | Dante/  
AES67 proprietary protocols

### Encoding Data Rate

1080p@60Hz 8bit - 3.4Gbps  
4K UHD@30Hz 4:4:4 8bit - 6.4Gbps  
4K UHD@60Hz 4:4:4 8bit - 8.7Gbps (with light compression)

### Max End to End Latency

Genlock Mode: Uncompressed = 30us, Compressed <120us  
Fast Switch Mode: 1~2 video frames = min. between 16.7 - 33.4ms @ 60fps

### Video Resolution (Max)

4096x2160p @ 60Hz 8bit 4:4:4 or RGB  
3840x2160p @ 60Hz 12bit 4:2:2 Dolby Vision  
3840x 2160p @ 60Hz 10bit 4:2:2 HDR10/HLG  
1920x1080p @ 60Hz 12bit

### Supported Standards

RGB | DCI | USB

## COMMUNICATION & CONTROL

### HDMI

HDMI 2.0b | HDCP 2.2 | CEC | EDID

### LAN

1x 1GbE 8-pin RJ45 (Auxiliary Lan)

### RS-232

1x 3-pin Phoenix Connector | 2 Way | Broadcast | Routed | API Programmable

### IR

1x IR TX 3.5mm TS Mono Jack | API Programmable  
1x IR RX 3.5mm TRS Stereo Jack | API Programmable

## **USB**

### **TX:**

3x USB 2.0 Type A

1x USB 2.0 Type B Host

USB Bandwidth: 480Mbps

### **RX:**

3x USB 2.0 Type A

1x USB 2.0 Type B Host

USB Bandwidth: 480Mbps

## **POWER**

### **Power Supply**

12V 2A DC PSU | 802.3at PoE+ Compliant

### **Power Consumption**

Max: 24w | Average: 10w