

NetworkHD 600 Series (SDVoE)

NHD-600-TRX | NHD-600-TRXF



Key Features

- Operates as a transceiver that can encode and decode simultaneously
- Transmissions up to 4K60 4:4:4 8bit with Dolby Vision/HDR compatibility
- USB HID connectivity for extension of keyboard and mouse
- Zero latency A/V transmissions using Genlock processing
- Instant matrix switching speeds using Fast Switch processing
- Native video wall (8x8) and multiview processing (16 windows)

In the Box

- 1x NHD-600-TRX or NHD-600-TRXF
- 1x IR Emitter
- 1x IR Receiver
- 1x Pair of Wall Brackets
- 1x Pair of NHD-000-RACK4 Brackets
- 1x 12V 2A DC Power Supply (US/UK/EU/AU)
- 1x 3-pin Phoenix Connector (for RS-232)
- 1x 5-pin Phoenix Connector (for analog audio)

TRXF Additional Features

- Fiber transport supporting up to 300m distance using OM3 multimode
- High speed USB 2.0 connecting for extension of USB peripherals over the network

NHD-610-TX v2



Key Features

- Pixel-perfect transmissions up to 4K60 4:4:4 8bit with Dolby Vision/HDR compatibility
- USB 1.1 connectivity for extension of USB peripheral devices

In the Box

- 1x NHD-610-TX v2
- 1x IR Emitter
- 1x IR Receiver
- 1x Pair of NHD-000-RACK4 Brackets
- 2x Pair of Wall Brackets
- 1x 12V DC Power Supply (US/UK/EU/AU)
- 1x 3-pin Phoenix Connector (for RS-232)
- 1x 5-pin Phoenix Connector (for analog audio)

- 2CH Dante/AES67 audio output
- Multi-purpose audio input/output for audio ingest or HDMI de-embed

NHD-CTL-PRO v2 (Controller)



In the Box

- 1x NHD-CTL-PRO v2 Controller
- 2x NHD-000-RACK4 Brackets
- 4x Wall Brackets
- 1x 6-pin Phoenix Connector
- 1x QuickStart Guide

Key Features

- Auto discovery of all NetworkHD endpoints
- Powerful web-based UI for intuitive control & management
- Isolated AV and control LAN ports for seamless integration into any network
- LED screen for access to system info
- Compact chassis for installation into NHD-000-RACK4

Specifications

Audio and Video			
	NHD-610-TX v2	NHD-600-TRX	NHD-600-TRXF
Inputs/Outputs	1x HDMI 2.0 Input 1x HDMI 2.0 Loop Output 1x 5-pin Balanced analog audio In/Out	1x HDMI 2.0 Input 1x HDMI 2.0 Output 1x 5-pin Balanced Analog Audio In/Out	1x HDMI 2.0 Input 1x HDMI 2.0 Output 1x 5-pin Balanced Analog Audio In/Out
Maximum Pixel Clock	600Mhz		
Video Encoding	SDVoE Pixel Pipeline Dante/AES67 proprietary protocols	SDVoE Pixel Pipeline	SDVoE Pixel Pipeline
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		
Max Video Resolutions	4096x2160p @ 60Hz 8bit 4:4:4 or RGB 3840x2160p @ 60Hz 12bit 4:2:2 Dolby Vision 3840x2160p @ 60Hz 10bit 4:2:2 HDR10/HLG 1920x1080p @ 60Hz 12bit		
Supported Standards	RGB DCI USB		
Communication and Control			
HDMI	HDMI 2.0b HDCP 2.2 CEC EDID		
Network	1x 10GbE RJ45 (AV) 1x 1GbE RJ45 (LAN/Dante) <i>Dante only available on 610-TX</i>		1x 10Gbps SFP+ (AV) 10GBASE-SR: 300m OM3 MMF 1x 1GbE RJ45 (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	3x USB 1.1 Type A 1x USB 1.1 Type B Host	3x USB 1.1 Type A 1x USB 1.1 Type B Host	3x USB 2.0 Type A 1x USB 2.0 Type B Host USB Bandwidth: 480Mbps
Security Protocols	AES 128 SSH TLS HTTPS		
Power			
Power Supply	12V 2A DC PSU 802.3at PoE+ compliant	12V 2A DC PSU 802.3at PoE+ compliant	12V 2A DC PSU
Power Consumption	Max: 24w Average: 10w		
Environmental			
Operating Temperature	+32°F ~ +104°F (0°C ~ +45°C) 10% ~ 90% non-condensing		
Storage Temperature	-4°F to ~ 140°F (-20°C ~ +70°C) 10% ~ 90% non-condensing		
Maximum BTU	34 BTU/hr		
Dimensions & Weight	Length x Width x Height: 215mm x 140mm x 25mm Weight: 1.75lbs		
Regulatory			
Safety and Emission	CE FCC RoHS RCM EAC		