

### 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

#### In the Box

- 1x NHD-600-TRX or NHD-600-TRXF
- 1x IR Emitter
- 1x IR Receiver
- 2x Pair of Wall Brackets
- 1x Pair of Rack Brackets
- 1x 12V 2A DC Power Supply (US/UK/EU/AU)
- 1x 3-pin Terminal Block
- 1x 5-pin Terminal Block

- Native video wall (8x8) and multiview processing (16 windows)

#### TRXF Additional Features

- Fiber transport supporting up to 300m distance using OM3 multi-mode or 10km using OS1/OS2 single-mode
- High speed USB 2.0 connecting for extension of USB peripherals over the network

#### NHD-610-TX



#### 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 Rack Brackets
- 2x Pair of Wall Brackets
- 1x 12V 2A DC Power Supply (US/UK/EU/AU)
- 1x 3-pin Terminal Block
- 1x 5-pin Terminal Block

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

#### NHD-600-E-TX | NHD-600-E-RX



#### Key Features

- Pixel-perfect transmissions up to 4K60 4:4:4 8bit with Dolby Vision/HDR compatibility

#### In the Box

- 1x NHD-600-E-TX or NHD-600-E-RX
- 1x IR Transmitter(For TX) or 1x IR Receiver(For RX)
- 2x Pair of Wall Brackets
- 1x Pair of Rack Brackets
- 1x 12V 1A DC PSU with UK/US/EU/AU Pins
- 1x 3-pin 3.5mm Terminal Block

- Zero latency A/V transmissions

# Specifications

Audio and Video				
	NHD-610-TX v2	NHD-600-TRX	NHD-600-TRXF	NHD-600-E-TX/RX
Inputs/Outputs	1x HDMI 2.0 In 1x HDMI 2.0 Loop Out 1x 5-pin Balanced Analog Audio In/Out	1x HDMI 2.0 In 1x HDMI 2.0 Out 1x 5-pin Balanced Analog Audio In/Out	1x HDMI 2.0 In 1x HDMI 2.0 Out 1x 5-pin Balanced Analog Audio In/Out	<b>TX</b>
				1 x HDMI 2.0 Input 1 x 3.5 mm Analog Audio In/Out
				<b>RX</b>
				1 x HDMI 2.0 Input 1 x 3.5 mm Analog Audio Out
Maximum Pixel Clock	600Mhz			
Video Encoding	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			Only support Genlock Mode
Max Video Resolutions	*5120x2160@60Hz 4:2:0 *5120x2160@30Hz 4:4:4 *5120x1440@30Hz 4:4:4 4096x2160@60Hz 8bit 4:4:4 or RGB 3840x2160@60Hz 12bit 4:2:2 Dolby Vision 3840x 2160@60Hz 10bit 4:2:2 HDR10/HLG 1920x1080@60Hz 12bit *5K resolution only support in Genlock Mode			
Supported Standards	RGB   DCI   USB			
Communication and Control				
HDMI	HDMI 2.0b   HDCP 2.2, 2.3   CEC   EDID			
Network	1x 10GbE RJ45 (AV) 1x 1GbE RJ45 (LAN/Dante) Dante only available on 610-TX		1x 10Gbps SFP+ (AV) 10GBASE-SR: 300m OM3 MMF 10GBASE-LR: 10KM OS1 /OS2 SMF 1x 1GbE RJ45 (LAN)	1x 10GbE RJ45 (AV) 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			TX: 1x IR TX RX: 1x IR RX
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	N/A
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	12V 1A DC PSU   802.3at PoE+ compliant
Power Consumption	10w	10.7w	8w   15.5w (with USB load)	TX: 6.6w RX: 7.2w
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 (L x W x H) & Weight	Dimension: 215mm x 140mm x 25mm Weight: 1.75lbs			Dimension: 145.2mm x 150mm x 25mm Weight: 1.36lbs
Regulatory				
Safety and Emission	CE   FCC   RoHS   RCM   EAC			