

NORRD

HDBaseT™ 3.0 Extender 4K60 HDMI + USB | NX3-222



True 4K60 over HDBaseT 3.0.

Norrd NX3-222 is a professional HDBaseT® 3.0 extender kit designed to deliver uncompressed 4K@60Hz HDMI with full 4:4:4 color and 18 Gbps bandwidth over a single CAT6/6A cable. It's built for real-world AV installations where you need rock-solid long-distance video without compression artifacts, making it ideal for meeting rooms, classrooms, signage, and control environments. Beyond video, NX3-222 transports USB 2.0 for peripherals, plus two-way IR and RS-232 for complete remote control integration. Analog audio de-embedding on both the transmitter and receiver adds extra flexibility for local speakers or assistive listening. Installation is clean and flexible thanks to bidirectional Power over Cable (PoC): power can be connected to whichever end best suits the room layout, and the other unit is powered automatically through the CAT link. With EDID management and a compact install-friendly chassis, NX3-222 is a true single-cable backbone for dependable 4K distribution and room control.

KEY FEATURES

Key Features

- Uncompressed 4K@60Hz 4:4:4 HDMI over HDBaseT® 3.0
- Long reach: up to 70 m at 4K and 100 m at 1080p over CAT6A/7
- USB 2.0 extension for cameras, touch, and peripherals
- Two-way IR and RS-232 for full remote control integration
- Bidirectional PoC lets you apply power at the end that best suits the install

VIDEO	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Max Resolution	4K@60Hz (YUV 4:4:4)
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
HDR Support	HDR, HDR10, HDR10+, Dolby Vision, HLG
AUDIO	
Supported Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Audio De-embedding	35mm analog L/R output (TX and RX)
TRANSMISSION	
Protocol	HDBaseT 3.0
Cable Type	Cat6 / Cat6A
Max Distance (4K60)	40m (131ft)
Max Distance (4K30)	70m (230ft)
Max Distance (1080p)	70m (230ft)
CONTROL	
IR	Bidirectional (12Vp-p)
RS-232	Bidirectional via 3-pin 3.81mm Phoenix connector
USB	USB 2.0 signal transmission
EDID Management	DIP switch: 00=Copy display, 01=4K30 4:4:4, 10=1080p60 4:4:4, 11=1200p60 4:4:4
Firmware Update	Micro USB service port (TX and RX)
CONNECTORS (TX)	
HDMI In	1x HDMI Type A (19-pin female)
HDBaseT Out	1x RJ45 Female
USB Host	1x USB Type B
USB Devices	2x USB Type A
L/R Out	1x 3.5mm Stereo Mini-jack
IR In	1x 3.5mm Stereo Mini-jack
IR Out	1x 3.5mm Stereo Mini-jack
RS-232	1x 3-pin 3.81mm Phoenix jack
Service	1x Micro USB (5-pin female)
CONNECTORS (RX)	
HDBaseT In	1x RJ45 (8-pin female)
HDMI Out	1x HDMI Type A (19-pin female)
USB Devices	2x USB Type A
L/R Out	1x 3.5mm Stereo Mini-jack
IR In	1x 3.5mm Stereo Mini-jack
IR Out	1x 3.5mm Stereo Mini-jack
RS-232	1x 3-pin 3.81mm Phoenix jack
Service	1x Micro USB (5-pin female)
POWER	
Power Supply	AC 100–240V 50/60Hz input, DC 24V/1A output (CE/FCC/UL certified)
POC (Power Over Cable)	Bidirectional (switchable on/off)
Power Consumption	14.28W (POC)
MECHANICAL	
Dimensions (W×D×H)	144mm × 78mm × 23mm (per unit)
Weight (TX)	323g
Weight (RX)	319g
Housing	Metal Enclosure
Color	Black
ENVIRONMENT	
Operating Temp	0°C ~ 40°C (32°F ~ 104°F)
Storage Temp	-20°C ~ 60°C (-4°F ~ 140°F)
Relative Humidity	20–90% RH (non-condensing)
PACKAGE CONTENTS	
Transmitter	1 pc
Receiver	1 pc
IR Blaster Cable	1 pc (1.5m)
IR Receiver Cable	1 pc (1.5m)

3-pin 3.81mm Phoenix Connectors	2 pcs
Mounting Ears	4 pcs
Machine Screws (KM3×4)	8 pcs
24V/1A Locking Power Adapter	1 pc
User Manual	1 pc