



Premium HDBaseT® 3.0 extender built for modern BYOD meeting rooms where users bring both USB-C and HDMI devices.

Norrd NX3-324 is a premium HDBaseT® 3.0 extender built for modern BYOD meeting rooms where users bring both USB-C and HDMI devices. The transmitter provides dual inputs — USB-C (DP Alt Mode) and HDMI — with automatic or manual switching, so the room is always ready for whichever laptop shows up. It transports full-bandwidth 18 Gbps video up to 4K@60Hz 4:4:4 with HDR pass-through over a single CAT6A/7 cable, delivering crisp, accurate images even across long runs. NX3-324 is also a complete room-integration backbone. Alongside video it extends USB 2.0 for cameras and peripherals, and supports bi-directional IR and RS-232 for seamless control-system integration. Both ends include analog audio de-embedding for simple connection to local speakers or assistive audio systems, and the receiver can downscale 4K to 1080p when needed for legacy displays. Installers get maximum flexibility with bidirectional 24V PoC: you can power the system from the TX or RX side depending on where power is available. For USB-C BYOD, powering the transmitter enables up to 60W laptop charging through the USB-C input — keeping the table clean with one cable for video, USB, and power. With long-reach performance (up to 100 m at 4K) and a compact metal chassis, NX3-324 is a robust single-cable solution for high-end conference rooms, classrooms, and collaboration spaces.

KEY FEATURES

Key Features

- Dual BYOD inputs: USB-C (DP Alt Mode) and HDMI with seamless switching
- True 4K@60Hz 4:4:4 transmission over HDBaseT® 3.0
- USB-C input supports laptop charging up to 60W Power Delivery
- Extends up to 70 m at 4K and 100 m at 1080p over CAT6A/7
- Bidirectional PoC supports flexible powering, and when USB-C charging is used, powering the TX side enables full PD delivery to the laptop

VIDEO	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3
Video Bandwidth	18Gbps
Max Video Resolution	Up to 4K@60Hz (YUV 4:4:4)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Color Depth	8/10/12-bit
HDR Formats	HDR, HDR10, HDR10+, Dolby Vision LLM, HLG
EXTENSION	
Transmission Technology	HDBaseT 3.0 (VS3000 chipset)
Max Distance Standard Mode (4K60/4K30/1080p)	100 m over CAT6A/7
Max Distance Long Reach Mode (1080p 8-bit)	150 m over CAT6A/7
USB / BYOD	
USB Compliance	USB 2.0
Inputs on TX	1 × HDMI IN + 1 × USB-C IN (DP Alt Mode) with auto/manual switching
USB-C Capabilities	DP Alt Mode A/V + USB 2.0 data + laptop charging up to 60W (with TX powered)
USB Ports on TX	1 × USB-B HOST + 3 × USB-A Device ports
USB Ports on RX	2 × USB-A Device ports
USB Port Power	Each USB-A port up to 5V/500mA
AUDIO	
HDMI/USB-C/HDBT Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Analog Audio De-embedding	3.5mm L/R OUT on TX and RX (LPCM 2CH)
VIDEO FEATURES	
Downscaling on RX	4K to 1080p downscaling on HDMI output (no frame-rate conversion)
CONTROL	
IR Pass-through	Bi-directional IR supported
RS-232 Pass-through	RS-232 pass-through + guest-mode control supported
EDID	
EDID Management	Advanced EDID with DIP options + copy display EDID
POWER	
Power over Cable (PoC)	Bi-directional 24V PoC with PoC switch
Power Supply Input	AC 100-240V 50/60Hz adaptor
Power Supply Output	DC 24V/3.75A
Power Consumption (max)	94.32W (TX powered, USB-C charging 60W, PoC to RX) / 10.8W (without USB-C charging)
PROTECTION & COMPLIANCE	
ESD Protection	IEC 61000-4-2: ±8kV air, ±4kV contact
MECHANICAL	
Housing	Metal enclosure
Color	Black
Dimensions TX (W×D×H)	170 × 102 × 22 mm
Dimensions RX (W×D×H)	144 × 78 × 23 mm
Weight	TX 484 g, RX 318 g
ENVIRONMENT	
Operating Temperature	0-40°C (32-104°F)
Storage Temperature	-20-60°C (-4-140°F)
Operating Humidity	20-90% RH, non-condensing
IR	
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz