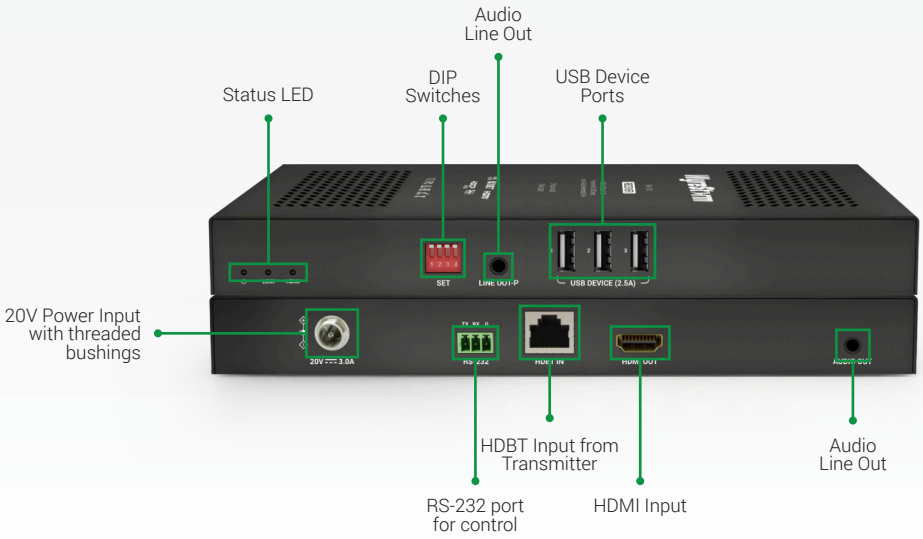
4K60Hz HDBaseT 3.0 Receiver with USB Device Inputs, Audio De-embed & PoH

RX3-100

WyreStorm

Specification Sheet



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Introduction

Introducing the RX3-100, an uncompressed 18G HDBaseT 3.0 receiver that achieves signal transmission up to 100m/328ft at 4K@60Hz via Cat.6A cable. With HDBaseT 3.0, experience USB data transfers of up to 300Mbps, nearly doubling HDBaseT 2.0's capability of 190Mbps. This heightened capacity supports high-speed connections to 4K webcams, whiteboards, and data drives. The RX3-100 seamlessly pairs with any of WyreStorm's HDBaseT 3.0 transmitter options, such as the SW-120-TX3 and SW-120-TX3-Ux for a powerful switching extender solution!

Key Features

- HDBaseT 3.0 Receiver supporting:
- Uncompressed content up to 4K@60Hz 4:4:4 8bit
- HDCP 2.3 encryption technology ensuring compatibility with the latest 4K UHD content and sources
- HD Multichannel audio up to DTS:X and Dolby Atmos via HDMI
- Compatible with DVI-I and DP++ v1.3 signals from compatible devices
- USB 2.0 passthrough offering 300Mbps transfer and HID extension
- Features 3 USB device ports
- Supports independent lane analog audio pass-through from transmitter to receiver
- Supports analog audio de-embed from HDMI output
- Bidirectional RS-232 and CEC pass-through communication
- Backwards compatible with HDBaseT 1.0 transmission and receiving devices (lowest denominator takes priority)
- Bidirectional PoH

In the Box

1x RX3-100 HDBaseT 3.0 Receiver
1x 3-pin Terminal Block
4x Wall Mounting Brackets
4x Mounting Screws
1x 20V 3A PSU*
1x Quickstart Guide
**Does not support USBC charging on TX*

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Specifications

Audio and Video	
Inputs	1 x HDBT In: 8-pin RJ45 3x Type A (Device) 1x RS-232: 3-pin Phoenix
Outputs	1x HDMI Out: 19-pin Type A Female 1x Audio Out 3.5mm (1/8in) TRS Stereo | 1x Line Out 2ch audio over HDBaseT | 1-way from TX
Max Video Resolution	1920x1080p @60Hz 12bit 3840x2160 @60Hz 4:4:4 8bit
Output Video Encoding	Format: HDBT Encoding Data Rate: 18Gbps End to End Latency: 10µs (microseconds)
Audio Formats	HDMI Out: 2ch Analog/PCM | Multichannel: LPCM up to DTS-X and Dolby Atmos Audio Out/De-embed: 2ch Analog/PCM
Supported Standards	DCI | RGB | HDR10 | Dolby Vision | HLG | BT.2020 | BT.2100
Maximum Pixel Clock	600Mhz
Communication and Control	
HDMI	HDMI | HDCP 2.3 | EDID | CEC Pass-through
HDBaseT	HDMI | USB | HDCP 2.3 | EDID | 2-way PoH | Bidirectional RS-232 | CEC
USB	3x Type A (Device) | Maximum uplink speed: 300Mbps
RS-232	1x RS-232: 3-pin Phoenix
Power Supply	20V DC 3A (Sold separately)
Power Consumption	10.92w
Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Maximum BTU	3.41 BTU/hr
Length x Width x Height	89mm x 36.3mm x 105.6mm/3.50" x 1.43" x 4.16"
Weight	0.36kg/.79lbs
Safety and Emission	CE | FCC | RoHS | RCM | EAC | UKCA

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.