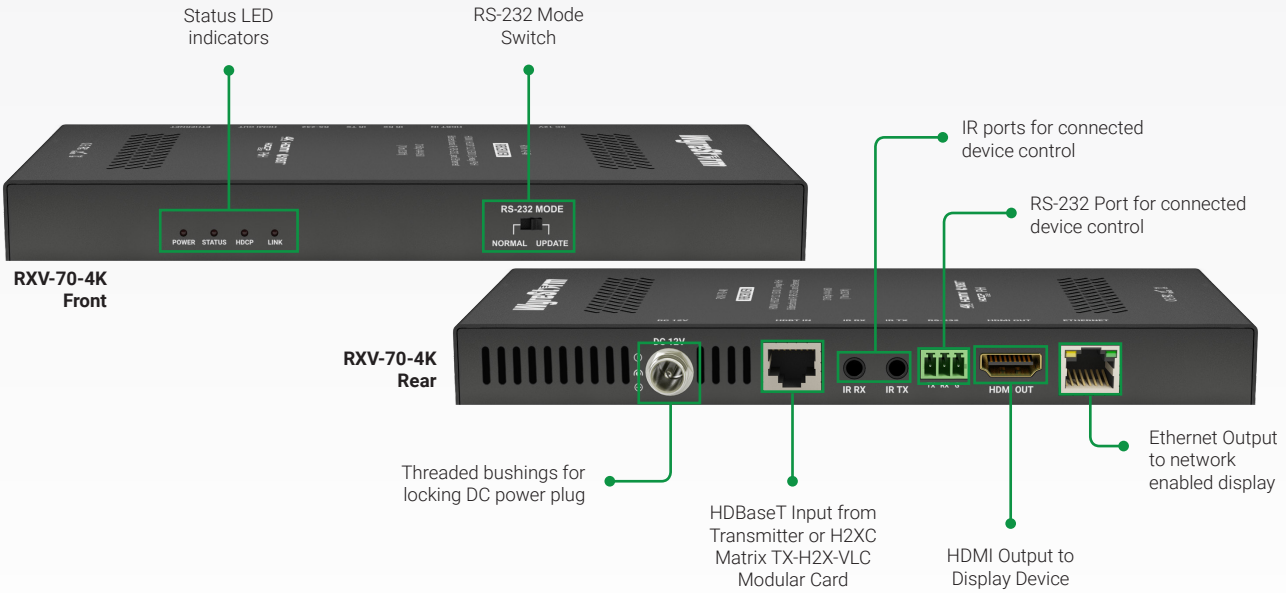
18Gbps HDMI-Over-HDBaseT™ Receiver (2160p 4:4:4/60: 70m/230ft | 1080p: 100m/328ft)

RXV-70-4K

Specification Sheet



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Introduction

Consumer HDMI content is now breaking through the once comfortable HDBaseT "ceiling" of 10Gbps, with HFR (High Frame Rate) HDR here already in the form of Blu-ray, Satellite & Cable (HLG) and gaming content. WyreStorm's H2XC matrix platform is ready for this, with this receiver being the perfect match for the TX-H2X-VLC modular card, using our new light-compression transmission solution.

Key Features

- Reliable HDBaseT-HDMI conversion over distance using single Cat6 cable
- 4K UHD signals up to 70m/230ft (2160p 4:4:4 60Hz 8-bit) and 2K signals up to 140m/459ft (1200p 60Hz 16-bit)
- Supports HDMI2.0 video standard up to 18Gbps
- Compatible with HDR standards including HDR-10, HDR-10+, HLG and Dolby Vision (Dolby Vision supported up to 30Hz)
- Class A HDBaseT™ supporting the transmission of video, multichannel audio, Ethernet, bidirectional control and PoH
- Powered remotely via PoH from H2XC matrix
- HDCP 2.2 compatible
- Bidirectional IR supported with both IR TX & RX ports
- RS-232 port for routed 2-way serial communication
- Supports Ethernet pass-through from matrix (Class A HDBaseT transmission only)
- LED indication for HDCP presence within signal and transmission link between devices
- Ventilated steel chassis
- Conforms to IEEE-568B standards
- Compact design for convenient and unobtrusive installation
- Wall mounting brackets and IR accessories included

In the Box

1x RXV-70-4K Receiver
1x IR Emitter
1x IR Receiver
2x Mounting Brackets
1x 3-pin Screw Down Phoenix Connector
1x Quickstart Guide

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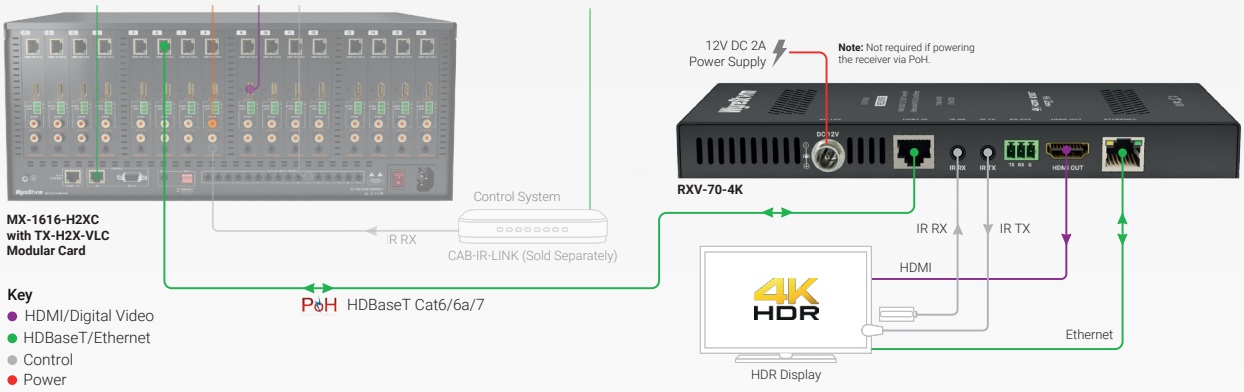
Specifications

Audio and Video				
Inputs	1x HDBT In: 8-pin RJ-45 Female			
Outputs	1x HDMI Out: 19-pin type A			
Input Video Encoding	HDBaseT Class A			
Encoding Data Rate	9.2Gbps			
End to End Latency	10µs (micro seconds)			
Audio Formats	2ch PCM | Multichannel: LPCM and Up to DTS-X and Dolby Atmos			
Video Resolutions (Max)	**Resolution**	**HDMI**	**Cat6**	**Cat6a/7**
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft
	1920x1080p @60Hz 16bit	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
Supported Standards	DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100			
Maximum Pixel Clock	HDMI: 600MHz | HDBaseT: 297MHz			
Communication and Control				
HDMI	HDCP 2.2 | EDID | CEC | DVI-D supported with adapter (not included)			
HDBaseT	HDMI | HDCP 2.2 | EDID | CEC | 1-way PoH to Receiver | Bidirectional IR			
CEC	CEC Pass-through – Requires CEC compatibility between source and display			
Ethernet	1x Ethernet: 8-pin RJ-45 Female | Bidirectional over HDBaseT			
IR	1x IR RX 3.5mm (1/8in) TRS Stereo | 1x IR TX: 3.5mm (1/8in) TS Mono | Bidirectional over HDBaseT			
RS-232	1x RS-232: 3-pin Phoenix | Bidirectional over HDBT			
Power				
Power Supply	12V DC 2A			
PoH	48V 15.4W			
Max Power Consumption	8.68W			
Environmental				
Operating Temperature	0 ~ +45°C (32 ~ +113 °F) | 10% ~ 90% non-condensing			
Storage Temperature	-20 ~ +70°C (-4 ~ +158 °F) | 10% ~ 90% non-condensing			
Maximum BTU	29.6 BTU/hr			
Dimensions and Weight				
Rack Units | Wall Box	<1U			
Height With | Without Feet	20.5mm/0.81in | 20mm/0.79in			
Width With | Without Brackets	193mm/7.6in | 150mm/5.91in			
Depth With | Without Handles	74.4mm/2.93in | 74.4mm/2.93in			
Weight	0.4kg/0.88lbs			
Regulatory				
Safety and Emission	CE | FCC | RoHS			

Right Product for the Right Application.



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