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r/HomeNetworking



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almagestnebula

4K over Ethernet

Hey all.

I need to run a 4K HDCP 2.2 compliant signal over ethernet.

The run isn't terribly long, maybe 15 feet, it's just the conduit wouldn't fit an HDMI cables plug.

We currently have dual Ethernet cat6 ran, and I have one passive HDMI receiver and sender hooked up.

I am having zero issue passing a 1080p signal. But for example my FireTV 4K results in no signal on my TV.

Is there anyway to do this passive? And remain HDCP 2.2 compliant? I really don't want to introduce having to power a receiver and sender on both ends.

Links to equipment would be helpful, thanks so much!



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38



33



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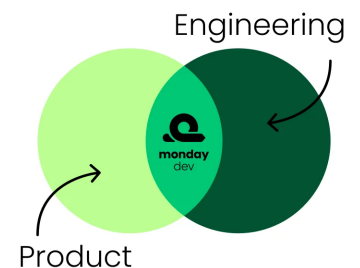
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g_13 • 7y ago • Edited 7y ago

Would a mini hdmi fit through? Just use a cable with mini hdmi on one end and an adapter to go back to full size once it's through the wall.



23



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none of them are passive.

Example of a balun that's exactly what you're asking for, except *not* passive: <https://smile.amazon.com/SDS-Extender-HDBaseT-Supports-Bi-directional/dp/B0107W8UP2/>

Knowing the word "balun" will get you much better search results than just putting in the cable specs (this is a search I've been down before).

What you might consider is a PoE (Power over Ethernet) balun kit. This one is pricey... but it supports 4K, and you only have to plug *one* side of it in (either the transmitter or the receiver) to power, and it'll power the other device over the same cat6 cable that the video signal is transmitted over. So you only need to run the single cable, and whichever end has trouble supplying power won't need it. <https://smile.amazon.com/AV-Access-Extender-Uncompressed-Supports/dp/B01GYL54JK/>

↑ 11 ↓ ...

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[deleted] • 7y ago

Wyrestorm make a HDbT kit where you only have to power one balun at one end. Think the model number is EX-35 or something

↑ 2 ↓ ...



0110010001100010 • 7y ago

HDBaseT is what you want. No issues with 4k over CAT6 at even 100M if you have the right adapters.

↑ 3 ↓ ...



drgruney • 7y ago

You can get HDMI connectors you finish yourself. But I'm not sure if spec compliance.

↑ 1 ↓ ...



drgruney • 7y ago

You could also look into putting an HDMI mini or micro cable in the conduit.

↑ 1 ↓ ...



Swedophone • 7y ago

Ethernet in this context is it the real deal, i.e. a link layer protocol, or is it the twisted pair wiring and rj-45?

↑ 0 ↓ ...

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[Log In](#)[+](#) [deleted] • 7y ago**gbredneck** • 7y ago

Are you in the UK?

You could do worse than try the HDanywhere kit

<http://www.awe-europe.com/brands/HDanywhere/Point-to-Point-Extenders/XTND4K40-4K-40m-Extender-250709-XTND4K40>

This extender will do 4k / hdmi 2.2 as per your request.

↑ 0 ↓ ...

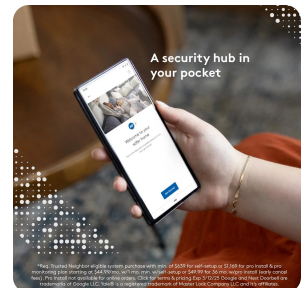
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**qefbuo** • 7y ago

Not sure how fiddly it is but you could cut off one of the HDMI cable heads, feed it through and then rewire it on the other side.

<https://www.youtube.com/watch?v=IrNk85K4Zbo>

↑ 0 ↓ ...

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Ethernet setup for bedrooms



27 upvotes · 15 comments

r/HomeNetworking • 1 yr. ago

Probably a silly question: I need more Ethernet ports as my router only has 4, an Ethernet switch would be the solution to this, right?

42 upvotes · 51 comments

r/HomeNetworking • 10 mo. ago

Is my Ethernet wired wrong?



59 upvotes · 67 comments

r/HomeNetworking • 6 mo. ago

What Ethernet should I use

40 upvotes · 95 comments

r/HomeNetworking • 8 mo. ago

Ethernet set up



88 upvotes · 37 comments

r/HomeNetworking • 5 mo. ago

What Ethernet cable is best.

1 upvote · 28 comments

r/HomeNetworking • 6 mo. ago

Any access point recommendations that have an extra ethernet port?

5 upvotes · 23 comments

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45 upvotes · 50 comments



r/HomeNetworking • 6 mo. ago

Home ethernet connections/cables

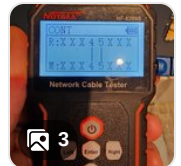


196 upvotes · 118 comments



r/HomeNetworking • 14 days ago

Troubleshooting this ethernet snag?



24 upvotes · 50 comments



r/HomeNetworking • 2 mo. ago

Ethernet Ports around the house



30 upvotes · 20 comments



r/HomeNetworking • 26 days ago

Setup home Ethernet



41 upvotes · 17 comments



r/HomeNetworking • 21 days ago

How expensive is it to get someone to drop ethernet all over your house?

97 upvotes · 166 comments



r/HomeNetworking • 6 mo. ago

What can be the reason for so many Ethernet ports?



373 upvotes · 206 comments



r/HomeNetworking • 6 mo. ago

Best way to run an Ethernet?



684 upvotes · 389 comments

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76 upvotes · 62 comments

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Is Ethernet worth it when my pc is 1m away from the router

117 upvotes · 210 comments

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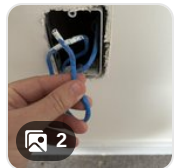
Ethernet ports not connected

48 upvotes · 41 comments

 r/HomeNetworking • 1 mo. ago

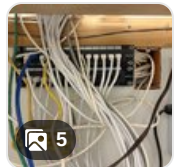
New home Ethernet wired in rooms?

145 upvotes · 87 comments

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Ethernet Slower than WiFi

121 upvotes · 141 comments

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Is it possible to connect to Ethernet in my hotel?

475 upvotes · 175 comments

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Is this possible with one router, switch and one wireless access point?

198 upvotes · 70 comments

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Wiring entire house with Ethernet on budget

89 upvotes · 189 comments



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87 upvotes · 64 comments



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Are there unpowered network switches?

9 upvotes · 50 comments

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