

A COMPARISON OF ETHERNET, POWERLINE NETWORKING, AND MoCA

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TuCS COMPUTER
SOCIETY



An International
Association of Technology
& Computer User Groups

**Web location for this
presentation:**

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SUMMARY

There are three ways for you to extend wired networks from one place to another: Cat 6/7/8 Ethernet wires, powerline network kits, and Multimedia over Coax Alliance ("MoCA") kits.

TOPICS

- Wired and Wired Equivalent Methods
- Speed Comparison of the three Technologies

THREE WIRED AND WIRED EQUIVALENT TECHNOLOGIES

- CAT 5/6/7/8 Ethernet cabling
- Powerline Networking
- Multimedia over Ethernet Alliance ("MoCA")

INTERNET PROVIDER'S GATEWAY BOX

ASUS MESH ROUTER #1

**CAT 6/7/8 CABLING,
POWERLINE NETWORKING KITS, AND
MULTIMEDIA over COAX ALLIANCE KTS**

**USE "SPEEDTEST" TO MEASURE THE
INTERNET SPEEDS**

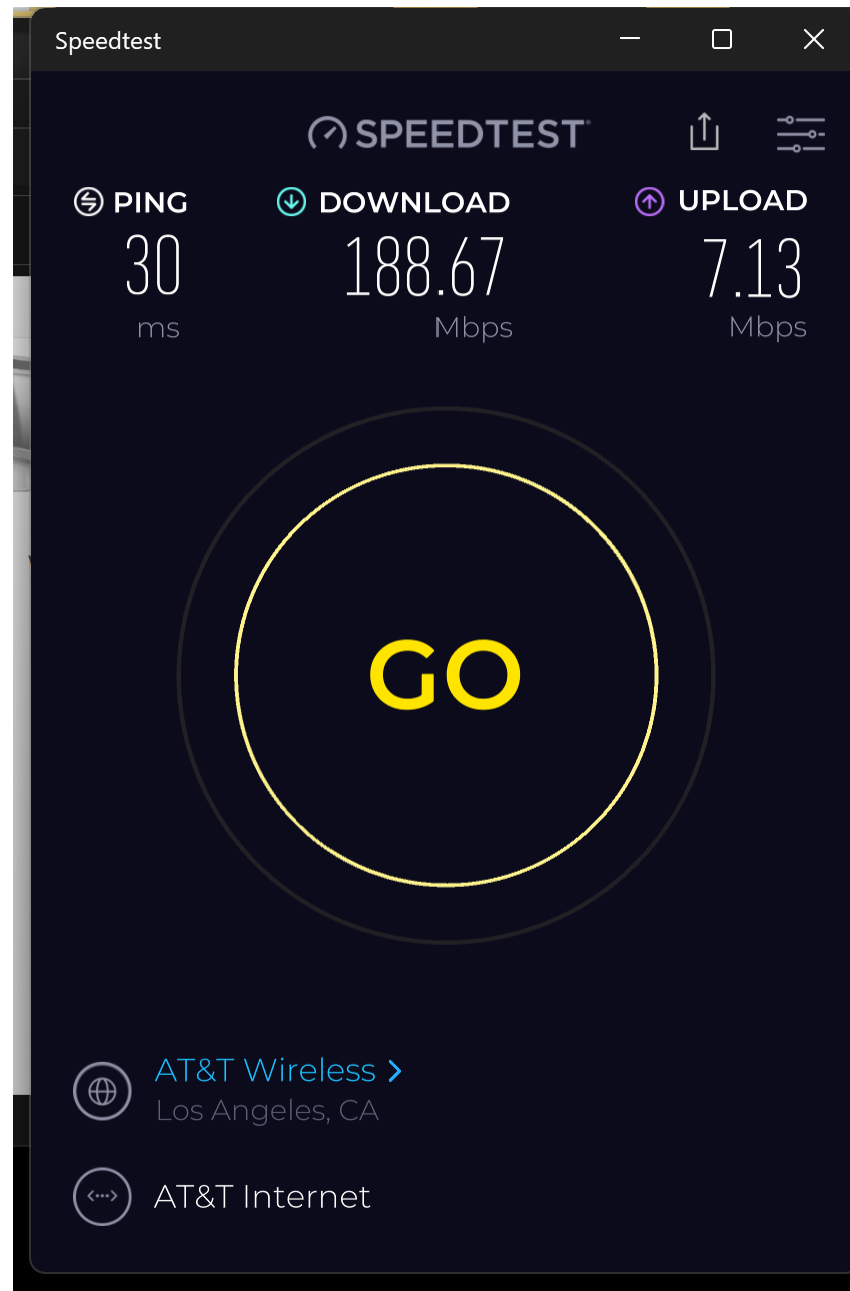
CAT 8 ETHERNET CABLING

- CAT 8 Ethernet cabling is the baseline that we will use to compare the two wired-equivalent technologies:

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ASUS MESH ROUTER #1

75 ft. run of Cat 8 cabling



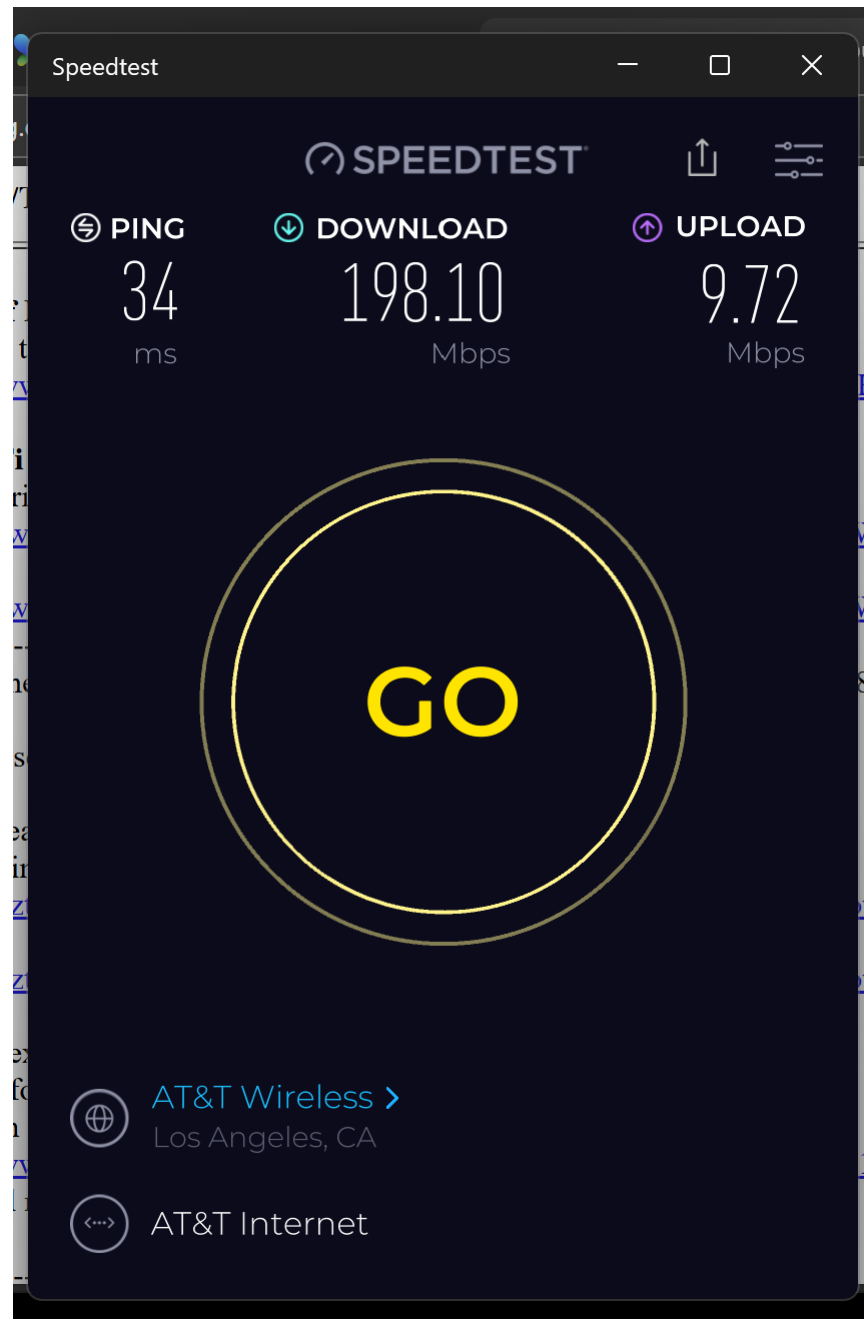
POWERLINE NETWORKING KIT

- ..from South wall to Northwest corner:

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ASUS MESH ROUTER #1





POWERLINE NETWORKING KIT

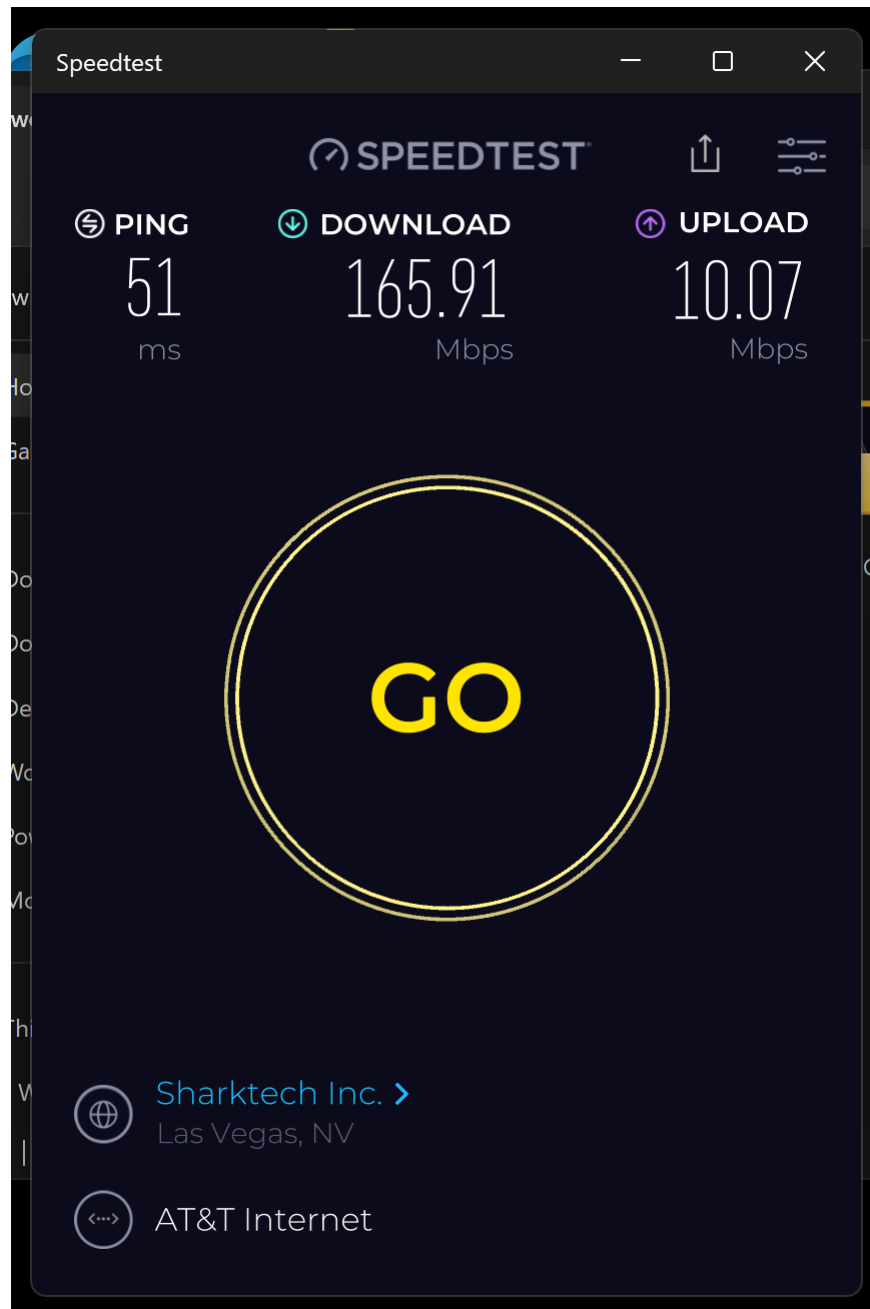
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- ..from South wall to center of the North wall:

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ASUS MESH ROUTER #1





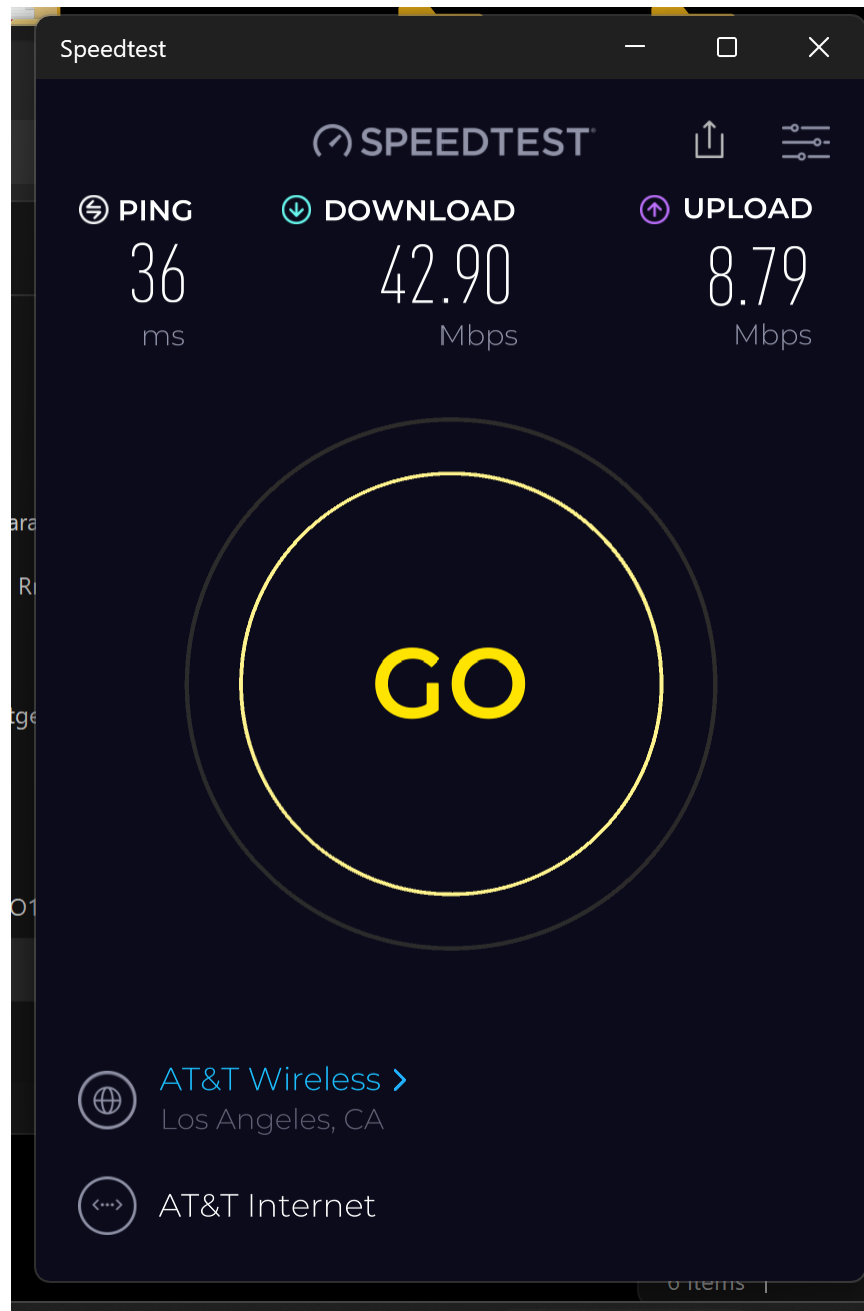
POWERLINE NETWORKING KIT

- ..from South wall to center of the Northwest corner:

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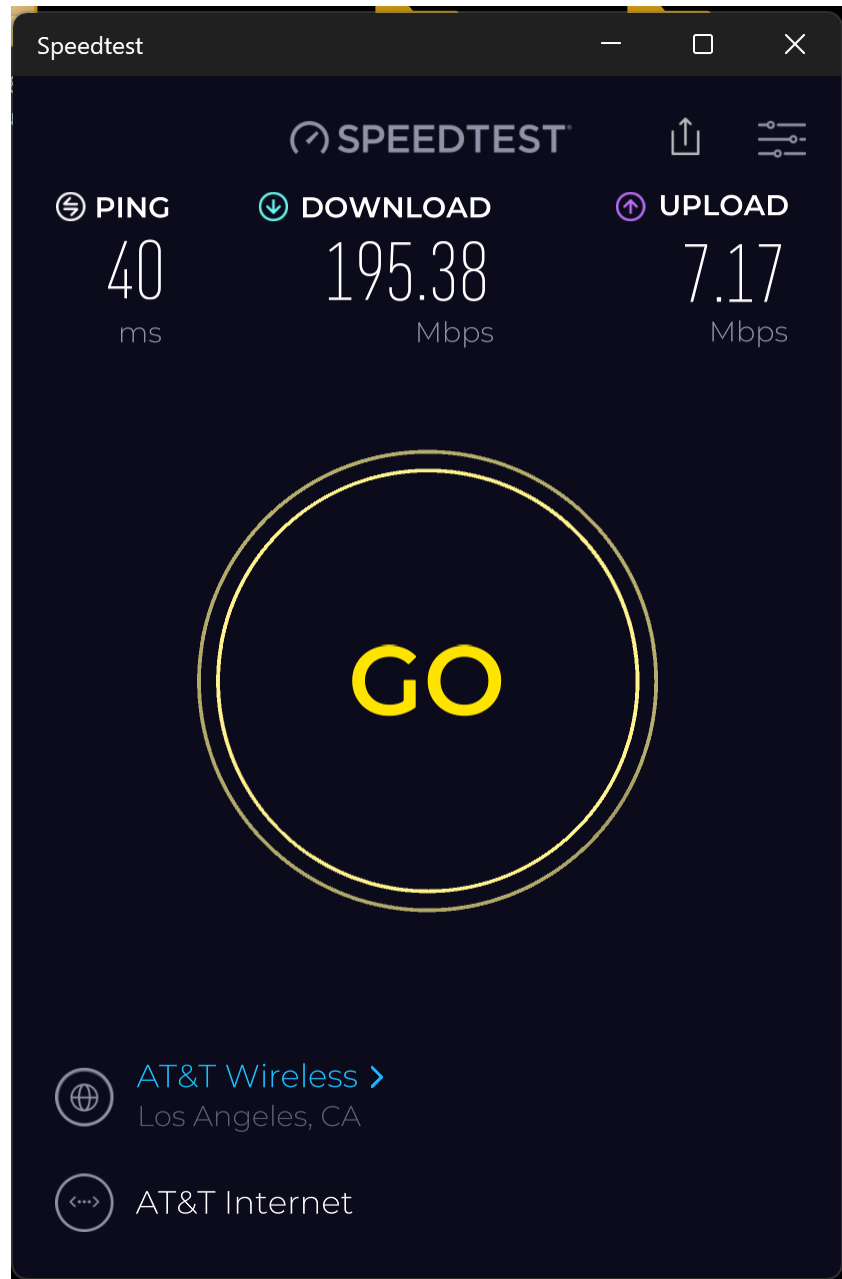
ASUS MESH ROUTER #1





MULTIMEDIA over COAX ALLIANCE ("MoCA") KIT

- At a local speed of 2.5 Gigabits per second, this



POWERLINE NETWORKING KIT

- This Powerline Networking kit is faster than any other that we have ever tested:

POWERLINE NETWORKING KIT (continued)

- <https://www.amazon.com/dp/B07TBJML4R>

INTERNET PROVIDER'S GATEWAY BOX

ASUS MESH ROUTER #1



MULTIMEDIA over COAX ALLIANCE (MoCA0 KIT

- This "G.hn Wave 2" MoCA kit is the fastest one that we have ever tested:

MULTIMEDIA over COAX ALLIANCE ("MoCA") KIT (continued)

- <https://www.amazon.com/dp/B0C47MJT83>