

Internet Deployment

Phrase Purchase Hosting, LLC
Home and/or Business

0.1 Overview

Need a network for your home or business, perhaps with a Wi-Fi solution?

- (optional) Edgerouter 4 to connect to your cable or fiber Internet
- Firewall gateway with a Raspberry PI model 4B, 8GB
- Network switch for your devices
- Raspberry PI model 4B, 8GB as primary Wi-Fi unit, centrally located.
- Raspberry PI Zero Wireless for repeater units used in mesh configuration
- CAT6 keystone jacks for specific rooms

0.2 Bill of materials (BOM)

Prices as of 9-Oct-2021

Item	Store	Quantity	Price	Subtotal
Ubiquiti EdgeRouter 4 (ER-4)	newegg.com	1	\$279.99	\$279.99
NETGEAR 24-Port Switch model JGS524	newegg.com	1	\$139.99	\$139.99
Raspberry Pi 4 Model B, 8GB, Power Supply, 32GB MicroSD	canakit.com	1	\$95.00	\$95.00
Raspberry Zero Wireless	canakit.com	4	\$30.00	\$120.00
TRIPP LITE N201-003-WH 3 ft. Cat 6 White	newegg.com	1	\$5.00	\$5.00
TRIPP LITE N201-003-BK 3 ft. Cat 6 Black	newegg.com	1	\$3.87	\$3.87
Monoprice Cat6 Ethernet Bulk Cable 500ft	newegg.com	1	\$59.99	\$59.99
Tripp Lite CAT6 Keystone jacks, 50 pieces	newegg.com	1	\$51.09	\$51.09
5 Pack Lot 2 port Hole Keystone Jack Wall Plate White	newegg.com	1	\$7.00 \$7.00	
Carlson wall outlet single gang box	homedepot.com	5	\$1.65	\$8.25
Subtotal				\$769.05

Total price can be a bit less if for example you already have a network switch, and don't need as much network wire.

0.3 Installation

Cost of basic installation and oversight of the project is \$50.00 USD, not including any work done to run cabling.

Additional on-site visits, at the same rate, can be requested if you have any questions (such as adjusting the firewall) and to check up on how the project is going.