

First floor:

52 ports connect to classrooms via category 5e cabling.

36 ports in the offices

total 88 ports x 2 RJ45 keystone = 176

- VC 2 port Keystone faceplate \$9.99 x 9 = \$89.91 [Amazon.com: VCE 2 Port Keystone Wall Plate UL Listed \(10-Pack\), Single Gang Wall Plates for RJ45 Keystone Jack and Modular Inserts, White : Electronics](#)
- RJ-45 Keystone outlet 20-pack \$28.95 x 10 = \$289.50 [Amazon.com: Everest Media Solutions 90° Angled CAT6/5e Keystone Jack in White - Slim Profile RJ45 Female Connector - Compatible with 90° Angled Speed Termination Tool - easyJACK \(B094WB91H3\) - 20-Pack : Electronics](#)
- 48 port Patch panel \$69.99 x 3 = \$209.97 [Amazon.com: Cable Matters UL Listed Rackmount or Wall Mount 2U 48 Port Network Patch Panel \(19-inch Cat6 Patch Panel / RJ45 Patch Panel\) for Gigabit Network Switch, 110 or Krone Impact Tools Compatible : Electronics](#)
- 48 port Switch \$209.99 x 3 = \$629.97 [Amazon.com: TP-Link 48 Port Gigabit Ethernet Switch | Plug and Play | Sturdy Metal w/ Shielded Ports | Rackmount | Fanless | Traffic Optimization | Unmanaged \(TL-SG1048\) , Black : Electronics](#)
- Aggregation switch \$1,499.00 [S5850-24S2Q-DC, 24-Port Ethernet L3 Switch, 24 x 10Gb SFP+, with 2 x 40Gb QSFP+, Support MLAG, Dual DC PSUs - FS.com](#)

Second-floor east side:

1. 10 ports connect to classrooms via category 5e cabling.
2. 170 ports connect to offices via category 5e cabling.

Total: 180 ports x 2 = 360

- VC 2 port Keystone faceplate \$9.99 x 18 = \$179.82 [Amazon.com: VCE 2 Port Keystone Wall Plate UL Listed \(10-Pack\), Single Gang Wall Plates for RJ45 Keystone Jack and Modular Inserts, White : Electronics](#)
- RJ-45 Keystone outlet 20-pack \$28.95 x 18 = \$521.10 [Amazon.com: Everest Media Solutions 90° Angled CAT6/5e Keystone Jack in White - Slim Profile RJ45 Female Connector - Compatible with 90° Angled Speed Termination Tool - easyJACK \(B094WB91H3\) - 20-Pack : Electronics](#)
- 48 port Patch panel \$69.99 x 4 = \$279.96 [Amazon.com: Cable Matters UL Listed Rackmount or Wall Mount 2U 48 Port Network Patch Panel \(19-inch Cat6 Patch Panel / RJ45 Patch Panel\) for Gigabit Network Switch, 110 or Krone Impact Tools Compatible : Electronics](#)
- 48 port Switch for offices \$209.99 x 4 = \$839.96 [Amazon.com: TP-Link 48 Port Gigabit Ethernet Switch | Plug and Play | Sturdy Metal w/ Shielded Ports | Rackmount | Fanless | Traffic Optimization | Unmanaged \(TL-SG1048\) , Black : Electronics](#)

Second-floor west side:

2 ports connect to classrooms via category 5e cabling.

104 ports connect to offices via category 5e cabling.

Total: 106 ports x2 for RJ45 keystone = 212

- VC 2 port Keystone faceplate \$9.99 x 11 = \$109.89 [Amazon.com: VCE 2 Port Keystone Wall Plate UL Listed \(10-Pack\), Single Gang Wall Plates for RJ45 Keystone Jack and Modular Inserts, White : Electronics](#)
- RJ-45 Keystone outlet 20-pack \$28.95 x 11 = \$318.50 [Amazon.com: Everest Media Solutions 90° Angled CAT6/5e Keystone Jack in White - Slim Profile RJ45 Female Connector - Compatible with 90° Angled Speed Termination Tool - easyJACK \(B094WB91H3\) - 20-Pack : Electronics](#)
- 48 port Patch panel \$69.99 x 3 = \$279.96 [Amazon.com: Cable Matters UL Listed Rackmount or Wall Mount 2U 48 Port Network Patch Panel \(19-inch Cat6 Patch Panel / RJ45 Patch Panel\) for Gigabit Network Switch, 110 or Krone Impact Tools Compatible : Electronics](#)
- 48 port Switch for offices \$209.99 x 3 = \$629.97 [Amazon.com: TP-Link 48 Port Gigabit Ethernet Switch | Plug and Play | Sturdy Metal w/ Shielded Ports | Rackmount | Fanless | Traffic Optimization | Unmanaged \(TL-SG1048\) , Black : Electronics](#)

First floor:	\$ 2,718.35
Second floor east side:	\$ 1,820.84
Second floor west side:	\$1,338.32
Grand total:	\$ 5,877.51

Diagram

