Product	Model Name	Model #	Part #	Amount to Buy	Prices	Wattages	Website	Secondary Website	Third Website
Edge Switches									
HP Solutions									
(Preferred PoE Switch)- HPE Aruba CX 6300M	Aruba	R8S90A	JL666A#ABA	3	$4,100 (3)	1440W (3)	Walmart	Server Supply	
(Alternative Switch)- HP Aruba 6100 48G 4SFP+ Network Switch	Aruba	JL676A (6100) R0X26C (6405 bundle)	JL676A	5	$1,500 (5 switches)	21W (5)	Hardware Storm	CDW	
Cisco Solutions									
(Alternative PoE Switch) Cisco Meraki MS125-48LP	Meraki	MS125-48LP		3	$3,000(3)	440W (3)	CDW		
(Preferred Non-PoE switch)- CBS350-48T-4X-NA Managed 48-Port GE, 4x10G SFP+		350-48T-4X	CBS350-48T-4X-NA	5	$1,502.99(5)	52W (5)	CDW	Provantage	
Data Center Switches									
Cisco Solution									
Cisco Catalyst 9200L - Network Essentials (Preferred)	Catalyst	9200L		3	$6,800 (CDW)	1440W (3)	CDW		
HP Solution									
HPE Aruba 2930M 48G POE+ 1-Slot (Alternative)	Aruba	JL322A		3	$6,3330 (CDW)	1440W (3)	CDW		
Fiber	**Port Amount**	**Model #**		**How Many**	**Price**				
Patch Panel									
Fiber Patch Panel w/ Multimode SC Simplex	24	FB11-2845-24C/RL		1	$140		Fiber Savvy		
Patch Cables				**How Many**	**Price**				
SC/SC 10GB Laser Optimized Multimode Simplex Fiber Patch Cable				24	$6.89 (24)= $165.36		L-Com		
SFP+ Module Options	**Module Count**	**Part #**		**How Many**	**Price**	**Wattages**			
HPE J9150D Aruba 10G SFP+ LC SR 300m MMF Xcvr (HP)	1	J9150D		4-8	$240	1.5W (4-8)	Server Supply		
Cisco CWDM-SFP10G-1550 Compatible 10G CWDM SFP+	1	CWDM-SFP10G-1550-80		4-8	$400	1.5W (4-8)	FS		
SFP56 Module Option				**How Many**	**Price**	**Wattages**			
QSFP56-200GB-SR4-AO - AddOn QSFP56 Module	1	QSFP56-200GB-SR4-AO		4	$940	1.5W (4)	AddOn Computer		
Fiber Ports on Switches									
Yes (4 SPF56 ports on HPE Aruba CX 6300 Switch Series)	*Yes (CBS350-48T-4X-NA Managed 48-Port GE, 4x10G SFP+)*	*Yes (Cisco Meraki MS125-48LP)*	Yes (Aruba 6405 v2 Switch bundle with HP Aruba 6100 48G 4SFP+ Network Switch)						
Racks									
Raising Electronics Server Rack 4 Post Open Rack Frame Rack Enclosure (42U)	Raising Electronics	CR6N42-9001	B076C2VH38	3	$230.00	n/a	Amazon		

First UPS Choice (HP PoE Switch and Cisco non-PoE Switch) + (Cisco Catalyst or HP Aruba) + (5) 350W Servers	*Second UPS Choice* (Cisco PoE Switch and HP Non-PoE Switch) + (Cisco Catalyst or HP Aruba)+ (5) 350W Servers	*Third UPS Choice* (Cisco PoE Switch and Cisco Non-PoE Switch) + (Cisco Catalyst or HP Aruba) + (5) 350W Servers	*Fourth UPS Choice* (HP PoE - HP Non-PoE Switch) + (Cisco Catalyst or HP Aruba) + (5) 350W Servers
Total Wattage: (Preferred Group)- 13kW (*1.6=VA)	Total Wattage: (Alternative Group)- 8kW (*1.6=VA)	Total Wattage: (Cisco Group)- 8kW (*1.6=VA)	Total Wattage: (HP Group)- 9kW (*1.6=VA)
Total VA Rating: (Prefered Group)- 21kVA	Total VA Rating: (Alternate Group)- 13kVA	Total VA Rating: (Cisco Group)- 13kVA	Total VA Rating: (HP Group)- 15kVA

UPS Equipment Choices					
Product	**VA Rating**	**Wattage Rating**	**Amount to buy**	**Price**	**Websites Used**
1.) APC Smart-UPS RT (Preffered)	15kVA	12kW	2	$18,000.00 (2)	APC (RT)
2.) APC Smart-UPS On-Line (Alternative)	5kVA	4.8kW	4	$7,000.00 (4)	APC (On-Line)
3.) APC Smart-UPS On-Line (Cisco)	5kVA	4.8kW	4	$7,000.00 (4)	APC (On-Line)
4.) APC Smart-UPS RT (HP)	10kVA	10kW	3	$10,000.00 (3)	APC (On-Line)

Spare Parts					
Fiber Patch Cables (10)= **$68.90**	Cisco Catalyst 9200L - Network Essentials (1)- **$6,800**	Fiber Patch Panel w/ Multimode SC Simplex (1)= **$140**	Raising Electronics Server Rack 4 Post Open Rack Frame Rack Enclosure (1)= **$230**	An extra UPS (1)- **$7,000- $18,000**	A extra of the switches of choice (2)- **$1,500-$4,100**

Totals (Including Spares)	**Preferred Group**	**Alternative Group**	**Cisco Group**	**HPE Group**
Wattages	13,100W	8,100W	8,100W	9,100W
Prices	$106,513.00	$80,195.00	$76,350.00	$92,235.00