Moorhead Area Public Schools Equipment Requests FY2021-22

Based on the district's past experience, knowledge and existing infrastructure, below are estimates of the components believed to meet their needs. Seeking bids on the following, or equivalents, including any relevant licenses, cables, connectors, power supplies, transceivers, modules, and other miscellaneous components as needed. Items and quantities listed are estimates of need. If quoting an equivalent, please provide documentation of equivalence. Vendor must be an authorized E-rate partner of the manufacturer or will agree that no grey market products will be accepted as part of the procurement. Proposals should separately itemize the cost of E-rate eligible and ineligible services. The district reserves the right to award none, some or all of the proposal. If a response exceeds the available Category 2 budget the district may choose to award only up to the available e-rate limit, less or more.

If a walk-through is completed, it must be completed by one week prior to the allowable contract date on the corresponding Form 470.

Category 1 Fiber connection	Descriptor	Manufacturer	Part Number SKU	Network License	Qty
Career Academy (New site)	Network Switch Gear	Cisco	C9300-48UXM-EDU	Advantage	2
~ Fiber Connection to High School	Network Switch Gear	Cisco	C9300-NM-8X		2
	Network Switch Gear	Cisco	SFP-10G-LR		2
	Network Switch Gear	Cisco	STACK-T1-1M=		2
	Network Switch Gear	Cisco	CAB-SPWR-150CM=		2
	Network Switch Gear	Cisco	PWR-C1-1100WAC		1
Category 2 eRate equipment	Descriptor	Manufacturer	Part Number SKU	Network License	Qty
Career Academy (New site)	Network Switch Gear	Cisco	C9300-48UXM-EDU	Essentials	9
	Network Switch Gear	Cisco	C9300-48P-EDU	Essentials	10
	Network Switch Gear	Cisco	C9300-NM-8X		9
	Network Switch Gear	Cisco	SFP-10G-SR-S		18
	Network Switch Gear	Cisco	STACK-T1-50CM=		13
	Network Switch Gear	Cisco	STACK-T1-1M=		5
	Network Switch Gear	Cisco	CAB-SPWR-30CM=		13
	Network Switch Gear	Cisco	CAB-SPWR-150CM=		5
	Network Switch Gear	Cisco	PWR-C1-1100WAC		6
	Wireless Access Point	Fortinet	FAP-431F		68
	Wireless Access Point	Fortinet	FAP-433F		20
	Descriptor	Manufacturer	Part Number SKU	Network License	Qty
Robert ASP (CAT2)	Network Switch Gear	Cisco	C9300-48UXM-EDU	Advantage	2

	Network Switch Gear	Cisco	C9300-48UXM-EDU	Essentials	6
	Network Switch Gear	Cisco	C9300-48P-EDU	Essentials	6
	Network Switch Gear	Cisco	C9300-NM-8X		5
	Network Switch Gear	Cisco	SFP-10G-SR-S		2
	Network Switch Gear	Cisco	STACK-T1-50CM=		5
	Network Switch Gear	Cisco	STACK-T1-1M=		7
	Network Switch Gear	Cisco	CAB-SPWR-30CM=		5
	Network Switch Gear	Cisco	CAB-SPWR-150CM=		7
	Network Switch Gear	Cisco	PWR-C1-1100WAC		6
	Wireless Access Point	Fortinet	FAP-431F		50
	Wireless Access Point	Fortinet	FAP-433F		6
	Descriptor	Manufacturer	Part Number SKU		Qty
Ellen Hopkins (CAT2)	Wireless Access Point	Fortinet	FAP-431F		54
	Wireless Access Point	Fortinet	FAP-433F		6
		No. Contractor			
	Descriptor	Manufacturer	Part Number SKU	Network License	Qty
Probstfield (CAT2)	Network Switch Gear	Cisco	C9300-48P-EDU	Advantage	2
	Network Switch Gear	Cisco	C9300-NM-8X		2
	Network Switch Gear	Cisco	STACK-T1-50CM=		2
	Network Switch Gear	Cisco	CAB-SPWR-30CM=		2
	Network Switch Gear	Cisco	PWR-C1-1100WAC		1
	Descriptor	Manufacturer	Part Number SKU		Qty
S.G. Reinertson (CAT2)	Wireless Access Point	Fortinet	FAP-431F		48
	Wireless Access Point	Fortinet	FAP-433F		10

	Descriptor	Manufacturer	Part Number SKU	Qty
West Central Academy (CAT2)	Wireless Access Point	Fortinet	FAP-431F	10
	Wireless Access Point	Fortinet	FAP-433F	0

Equipment requirements

- 48x 1G RJ-45 ports with PoE+ and 36x 2.5G & 12x mGig RJ-45 ports with UPoE
- Layer 2, Routed Access (RIP, EIGRP Stub, OSPF Up to 1000 routes), PBR, PIM Stub Multicast (up to 1000 routes)), PVLAN, VRRP, PBR, CDP, QoS, FHS, 802.1x, Macsec-128, CoPP, SXP, IP SLA Responder, SSO
- PoE+ switches must have at least an 715W AC power supply, with at least 437W of available PoE power
- UPoE switches must have at least an 1100W AC power supply, with at least 490W of available PoE power
- Must have modular uplinks and uplink modules must support at least 10G per port
- UPoE switches must have at least 12x mGig downlink ports and all other downlink ports should be at least 2.5G
- Must support dual redundant power supplies
- All switches defined in this section of the requirements must be the same series/product family and 100% compatible power and data stacking with each other
- Must support StackWise with up to 8 members per stack and stacking bandwidth of at least 480 Gbps
- Must support StackPower for redundant/shared power stacking
- Must include 2-post mounting hardware

• Must include any necessary licensing for operating the equipment at the license level defined in the Network License column of this sheet (defined at https:// goo.gl/7WbPQJ) with at least a 5 year term

- · Lifetime next-business-day (NBD) hardware replacement for switches
- Scoring preference may be given for switches with higher warranty, enhanced feature set or replacement levels
- All equipment must be new and from an authorized reseller of the manufacturers product for which they are quoting. No refurbished or "grey-market" gear will be accepted