

**MONTGOMERY TOWNSHIP BOARD OF EDUCATION
1014 ROUTE 601
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**Addendum No. 1
for
B20-02, Network Closet Project
for the
Montgomery Township School District**

Please be advised the specification has been revised. The revised specification is attached.

See attached Revised Specification - Attachment #1

Note: The bid opening date and time for **Friday, March 22, 2019** at **11:00 A.M.** has *not* been changed.

Attachment #1

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Addendum No. 1

**B20-02, Network Closet Project
for the
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SPECIFICATION

The Montgomery Township School District is proposing two Erate projects for 2019. The projects encompass upgrading network equipment throughout the district in two phases.

Phase 1:

Three pieces of key network equipment are about to be deemed “end of life” by the manufacturer. The main Enterasys Matrix S4 Chassis with two ST1206-0848-F6 blades core switch will need to be replaced with an equivalent chassis or stackable core switch that supports 4 single-mode fiber ports, 27 multi-mode fiber ports, and 96 network ports. The centralized switch management system, Netsight, will also be upgraded to the latest version of the software as well as the hardware required to run it or equivalent. The current Netsight system consists of one server and three NACs.

Additionally, a 24 port poe switch located in the press box of the football field. The switch must be rated for outdoor use for extreme hot and cold temperatures.

Phase 2:

Phase 2 is an extension of project one. This project needs to be awarded to the same vendor as project 1. The ability to award phase 2 will be dependent upon the district budget process which will not be concluded until May 2019.

This project consists of replacing network switches in the board office, high school, upper, and lower middle school **totaling 71** switches in all.

Technical Specs

Switches

Technical Specifications	Details
Ports	48 10/100/1000 ports, maximum or 16 1/10GbE SFP+ ports, depending on model, all supporting MACSec 8 Rate Multi-Gigabit (1/2.5/5/10GBASE-T) ports, available on select model 2 open I/O module slots, maximum, depending on model PoE/PoE+ on selected models
Memory and processor	Dual ARM Coretex A9 @ 1 GHz 2 GB DDR3 SDRAM Packet buffer size: 13.5 MB Internal
Latency	1000 Mb Latency: < 2.8 μ s 10 Gbps Latency: < 1.8 μ s 40 Gbps Latency: < 1.5 μ s
Throughput	up to 190.5 Mpps
Routing/switching capacity	320 Gbps
Switch fabric speed	338 Gbps
PoE capability	1,440 W maximum, depending on configuration
Stacking capabilities	Virtual 10 switches
Management features	Network Management - Intelligent Management Center Command-line interface Web browser Configuration menu Out-of-band management (RJ-45 Ethernet) In-line and out-of-band Out-of-band management (serial RS-232C or micro USB)
Input voltage	100-240 VAC Depending on installed options, model and configuration
Operating temperature range	0 to 45°C
Operating humidity range	15 to 95% @ 104°F (40°C) (noncondensing)
Product dimensions (H x W x D)	17.42 x 16.98 x 1.73 in

Weight	15.9 lbs.
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Football Stadium

Technical Specifications

- Capacity
 - Type : IPv4 routing table entries
 - Value : 10000
 - Type : IPv6 routing table entries
 - Value : 5000
- Dimensions & Weight
 - Depth : 17 in
 - Height : 1.7 in
 - Weight: 13.62 lbs.
 - Width : 17.4 in
- Environmental Parameters
 - Humidity Range Operating : 15 - 95% (non-condensing)
 - Humidity Range Storage : 15 - 90% (non-condensing)
 - Max Operating Temperature : 113 °F
 - Max Storage Temperature : 158 °F
 - Min Operating Temperature : 32 °F
 - Min Storage Temperature : -40 °F
- Environmental Standards
 - ENERGY STAR Certified : Yes
- Flash Memory
 - Installed Size : 1 GB
 - Brand :
 - Compatibility : PC
 - Country Kits : United States
 - Localization : English
 - Manufacturer :
 - Model : 3810M 48G PoE+ 4SFP+ 1050W
 - Packaged Quantity : 1

Additional Project Information and Materials

1. *Must work within our existing network and networking software.*
2. Need Stacking Module for each switch
3. Stacking Cables for each switches 1/5 Meter in leith
4. One Extra power supply for each switch
5. Switches on 48 port switch must push 1000 Watts for POE

6. Switches must be SFP+

Installation:

- Installation Hours must include after school hours (3pm-11pm)
- Installer provides all materials and tools.
- Installation should include switch/network configuration.