



Quality
Network
Solutions

Illini Central CUSD #189

FY2025

Switching



Quality Network Solutions



September 30, 2024

Prepared By: Joe Bush

Proposal Amount: \$ 24,107.50

Overview

Based upon our network evaluation performed September 2024, QNS would recommend the following:

- Establish data connectivity throughout the new building

Recommendations

High School

- Install OM3 fiber from main network closet to newly established closet
- Install (3) Aruba 6100 48p PoE+ switches as a VSF stack with a 10gb uplink
- Install (3) Aruba AP-635 and (10) Aruba AP-615 access points throughout the new construction
- Install (1) Rackmount battery backup in new closet

Hardware and cost details are attached below:



Int. _____

111 E. Jefferson | Sullivan, IL 61951 | (800) 662-5123



Client Name:	Illini Central CUSD #189	Date:	09/30/2024
Client Address:	208 North West Avenue Mason City, IL 62664	Client Phone:	217-482-5180
QNS Contact:	Joe Bush jbush@qnsk12.com	Phone:	800-662-5123 217-728-3155
QNS Proposal #:	N1899544		

Project Overview

This project will cover upgrades to the network backbone, switching, and access points.

Description of Work

TERMS & CONCLUSIONS

Notes & Assumptions

QNS will provide services during regular business hours of Monday-Friday, 7:30 a.m.-4:30 p.m.
 QNS will dispose of its own identifiable waste and return areas to found condition by cleaning up any debris.
 QNS has not included any conduit, rough-in, or stub-ups. All rough in to be performed by others.
 QNS follows strict project management guidelines. Should anything change in the scope of work, QNS will initiate a change order that will need to be signed by the client prior to moving forward
 QNS needs to ensure quality of service and control of project management, therefore all hardware is offered as a package solution. No substitutions or third party purchase will be made.

**This proposal excludes any work that would be required (i.e., drilling, demolition, grinding, cutting, etc.) where lead and lead-based paints, coatings, or materials are present. **

Exclusions

Under this proposal:

Payment Terms

Progressive draw throughout the project and Time & Materials rate is \$80.00 per hour for any associated work needed outside the scope of this project.

Proposal Timeframe

This proposal will be valid until December 30, 2024. After that date, QNS will provide updated estimates in a new proposal.

Proposal Acceptance

Client Acceptance

Date



Illini Central CUSD #189 (N1899544)

Copper & Fiber Infrastructure

Description	Part Number	Quantity	Cost	Total
Rack Mount Fiber Enclosure – loaded w/ 12-port LC Modules	ML-39-012-B-LCGD-T9-003-14-12	2	\$ 566.54	\$ 1,133.08
➔ (1) 1RU FIBER PANEL	045-339-10	2	\$ 0.00	\$ 0.00
➔ (1) SPLICE TRAY	10-8007	2	\$ 0.00	\$ 0.00
➔ (1) 12PORT ADAPTER PANEL LC	065-245-11	2	\$ 0.00	\$ 0.00
➔ (1) 12F FUSION SPLICE PIG TAIL OM3 LC	065-487-10	2	\$ 0.00	\$ 0.00
Fusion Splice Protect Sleeve (50 pack)	LEVSSD-60	1	\$ 25.00	\$ 25.00
50um 6F MM Fiber - Riser (Indoor/ Outdoor) per foot	BE0061ANR.BK	825	\$ 0.99	\$ 816.75
2F Jumper 2m 50/125 - LC to LC	FX2ERLNLNSNM002	2	\$ 37.19	\$ 74.38

Switch Infrastructure

Description	Part Number	Quantity	Cost	Total
X132 10G SFP+ LC SR Transceiver	J9150D	2	\$ 743.63	\$ 1,487.26
Aruba 10G SFP+ to SFP+ 3m DAC Cable	J9283D	2	\$ 109.69	\$ 219.38
Aruba 6100 48G CL4 4SFP+ 370W Switch	JL675A	3	\$ 2,418.17	\$ 7,254.51

Wireless Infrastructure

Description	Part Number	Quantity	Cost	Total
Aruba AP-615 802.11ax 2x2:2 MU-MIMO Dual Radio, Tri-band Integrated Antenna AP	R7J50A	10	\$ 560.33	\$ 5,603.30
Aruba AP-635 802.11ax 2x2:2 SU-MIMO Tri Radio, Tri-band Integrated Antenna AP	R7J28A	3	\$ 785.39	\$ 2,356.17
HPE : AP-MNT-MP10-D AP mount bracket 10-pack D	Q9G71A	1.3	\$ 113.63	\$ 147.72



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Power & Accessories

Description	Part Number	Quantity	Cost	Total
APC Smart-UPS 1000VA LCD Rackmount	SMC1000-2UC	1	\$ 669.43	\$ 669.43

Project Management & Labor

Description	Part Number	Quantity	Cost	Total
Planning & Design	QNS	3	\$ 80.00	\$ 240.00
Configuration	QNS	12	\$ 80.00	\$ 960.00
Installation (Labor)	QNS	31	\$ 80.00	\$ 2,480.00
Testing & Labeling	QNS	5	\$ 80.00	\$ 400.00
Freight	QNS	1	\$ 120.52	\$ 120.52
Incidental Costs	QNS	1	\$ 120.00	\$ 120.00

Grand Total: \$ 24,107.50

