



# AccelTex Solutions Provides High Density Wi-Fi Solution for School System

February 2021

CASE SUMMARY



**Client**

A large school district

**Challenge**

Provide high density Wi-Fi and protect valuable AP assets

**Product Solutions**

12x10x5 Solid Door with Key Lock Metal Enclosure  
ATS-12105PCS-S-K

2.4/5 GHz 4/5 dBi 4-Lead Patch Antenna with Right-Angle RPTNC connectors  
ATS-OP-245-45-4RARPTP-36

Metal AP Bracket ATS-APBKT-M (Different versions for Cisco® and Aruba® APs)

**Overview**

One of the largest school districts in the United States manages over 1,500 K-12 schools and close to one million students. They needed to upgrade their Wi-Fi networks to accommodate the growing usage demand from faculty and students.

**The Problem**

The school district had several requirements for their Wi-Fi network upgrade:

- Metal enclosures with locks to secure access points and Wi-Fi equipment from tampering
- Custom made antennas to meet specific RF characteristics to prevent the signal from "bleeding" floor-to-floor and room-to-room

**Our Solution**

AccelTex Solutions developed a custom enclosure to accommodate an external antenna tailored to the school's environment. Also, several mounting brackets were developed for a few different AP types to be mounted inside the lockable metal enclosures.

**The Results**

Over 15,000 enclosures with the mounted antennas were deployed in Phase 1 of the project. The schools that had these installed experienced increased productivity, capacity and expandability for future expansions.



Cost Savings



Increased Signal Strength



Satisfied Faculty and Staff

*Have a different challenge to address?  
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