



## BEARCOM PARTNERS WITH PATTERSON USD TO PROVIDE PRIVATE LTE (CBRS) FOR DISTANCE LEARNING

In response to the COVID-19 pandemic, the Patterson Unified School District (USD) in Patterson, CA, looked to adopt a hybrid distance learning environment where students would split their time between in-person learning and virtual learning at home. Unfortunately, not all households in the school district had internet access, which put them at a disadvantage when adapting to distance learning. Others that did have internet access did not have a secure network or had slow and spotty Wi-Fi.

To bridge the gap, the USD used the Coronavirus Aid, Relief, and Economic Security (CARES) Act to fund education technology. With their grant, they turned to BearCom to provide their students with a reliable internet connection.

### THE PLAN

The district has over 6,000 students across eight schools. To cover the area, BearCom would erect 7 broadband towers to establish a secure connection in rural areas and ensure signals reached across the schools. The first installation was completed on September 1, 2020 at Grayson Elementary, the school that draws from the district's most rural and underserved population. The rest of the towers would then be installed over the next three months.

### THE SOLUTIONS: MOTOTRBO<sup>®</sup> NITRO<sup>™</sup> AND CITIZENS BROADBAND RADIO SERVICE

For Patterson's needs, the BearCom team used MOTOTRBO<sup>®</sup> Nitro<sup>™</sup>, a private LTE solution from Motorola Solutions that runs on the Citizens Broadband Radio Service (CBRS) spectrum.

**Citizens Broadband Radio Service (CBRS)** is a commercial network on Band 48 and offers the following:

- **2x the capacity** and up to **4x the range** of traditional Wi-Fi with reliable coverage even through thick concrete walls
- **End-to-end encryption** to keep sensitive data secure
- Ability to **connect computers, tablets, and smartphones** for different operational streams, tasks, and monitoring

Improve Remote Learning. Contact BearCom for a FREE quote today.

**BEARCOM<sup>®</sup>**



**BearCom.com**



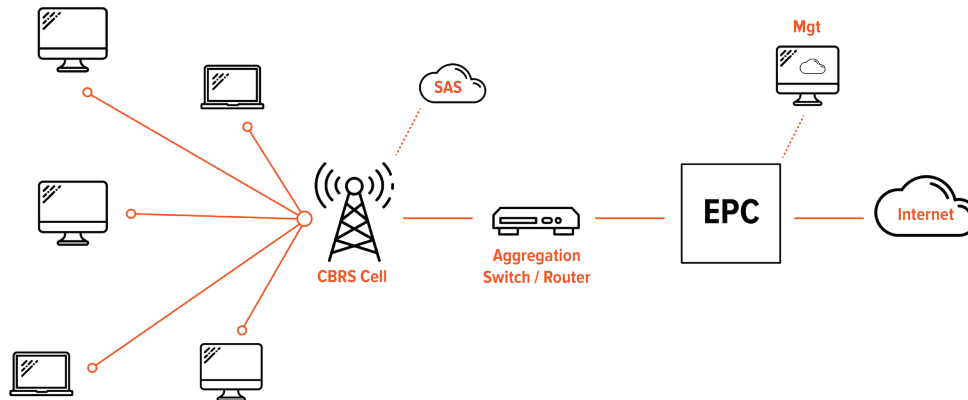
**800-527-1670**

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**MOTOTRBO® Nitro™** delivers data through an On-Prem Data Gateway that goes directly into a school district's network, allowing the transmission of large amounts of data, customized coverage, and control over content and access. It is more cost-efficient, is quicker to deploy, and offers greater range compared to other options: you get the benefits of a private network without carrier subscriptions or other expenditures.

## THE OUTCOME

The Patterson USD was thrilled with the performance and customizable capabilities of Nitro™ that BearCom installed, tested, and supported. The district is now able to manage firewalls and captive portals to keep data secure and transmit larger amounts of data even with many devices connected to the network. They can also monitor coverage and capacity to avoid overage charges.



## IMPROVE DISTANCE LEARNING FOR YOUR SCHOOL

If you're looking for private broadband data, BearCom can help with every step of the process, from initial design to installation and maintenance.

We start by performing an on-site survey to review your network capabilities. We can also perform the survey remotely using detailed maps and aerial photography. Next, we design a Wi-Fi network that fits your needs and IT criteria, from computing on the edge to developing a centralized computer stack. We ensure it's compliant with the United States Secure and Trusted Communication Act (HB 4998). From there, we install and maintain your system.

BearCom is an Adopter and Advisor partner of the CBRS Alliance. The CBRS Alliance is an industry organization focused on driving the development, commercialization, and adoption of OnGo® shared spectrum solutions.



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