# RTO
## RealTime Ops

# Distance Learning Without Broadband
## EQUIPPING SCHOOL BUSES WITH MOBILE HOT SPOTS

## Meet Thomas

Thomas is an IT Director for a city school district. In response to the current pandemic, he is working to expand student internet access and bridge the 'digital divide'. It falls to him to develop solutions that allow students with non-existent and unreliable internet access to connect with the new distance learning materials his colleagues have developed.

## Current Challenge
### EDUCATING STUDENTS WITH NO ACCESS TO THE INTERNET

According to the Associated Press, 18% of US students do not have access to broadband internet and 17% do not have access to computers at home. While some homes have broadband internet, increases to the home workforce have significantly slowed data rates. Thomas's school district recently obtained laptops for students who didn't have one, but now he needs to get those laptops online.

## Recommended Solution
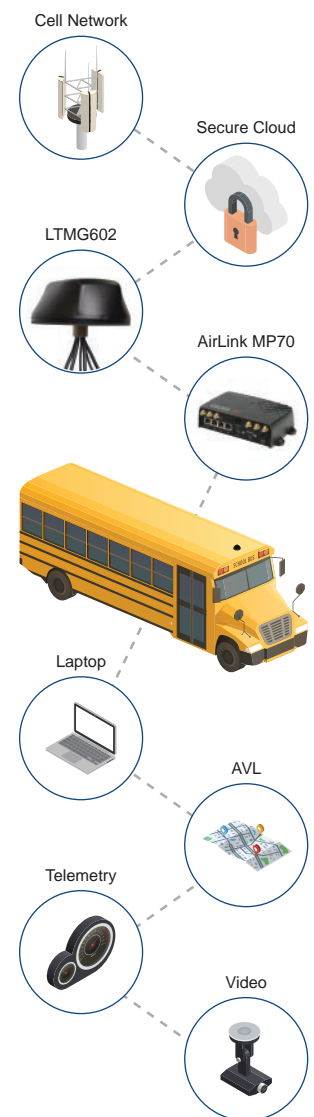### FAST AND SECURE WIFI WITH CELLULAR ROUTERS & HIGH-GAIN ANTENNAS

The Airlink® MP70 router, paired with an LTMG602 antenna, is a solution that allows school buses to broadcast WiFi instantly to up to 100 students at speeds up to 300 Mbps. Using the AirLink® Management Service (ALMS), Thomas can remotely configure, deploy, and monitor every MP70 device his district installs, and deliver security and functional updates seamlessly with a single command. Plus, automatic alerts let him know when devices have gone off-line.

## The Results
### EFFECTIVE DISTANCE LEARNING FOR ALL STUDENTS

After activating each routers on a reliable network carrier like Verizon Wireless, each school bus will provide every student secure access to the distance learning materials they need. Thomas, and his IT team, can manage approved internet traffic and secure connections to the schools internal networks.

Later, when the exigent circumstances of the pandemic abate, Thomas can look to utilize all the additional benefits of WiFi equipped school buses like live video monitoring, automatic vehicle location, telemetry data, and more.

Cell Network

Secure Cloud

LTMG602

AirLink MP70

Laptop

AVL

Telemetry

Video

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