

# Reinventing “School”

## Private LTE networks help extend the reach of distance learning to every student.

Independent school districts, colleges and universities find themselves on the front edge of defining our “new normal” for the current pandemic and beyond – balancing the health and safety of students, faculty and staff with their mission to optimize educational outcomes for students of all ages and backgrounds.

According to the Center for Reinventing Public Education, fewer than 50% of U.S. school districts intend to resume full-time in-person instruction, with more than 70% planning to offer at least partial at-home remote instruction. Unfortunately, the National PTA reports that more than 40% of students don't have access to broadband Internet at home – a sad reality recognized by 56% of teachers who reported major barriers, including lack of Internet and lack of devices, preventing students from accessing remote learning during the extended school closures in the spring.

With the help of federal grants, many school systems are looking to use CBRS spectrum to deploy a Private LTE OnGo network as a way of extending Internet service to students in their homes while containing costs and protecting students from unwanted/unsavory content and or potential security and privacy issues. MultiTech is a leader in enabling Private LTE with a new line of rugged, plug-and-play OnGo CBRS devices which are particularly well suited to the needs of both school systems and their students.

OnGo private LTE networks compliment public cellular and Wi-Fi networks and can provide coverage where neither exists. Government agencies, independent school districts, hospitality and industrial enterprises alike are deploying OnGo networks to guarantee wireless coverage where public networks do not exist and in locations where wireless coverage is critical for organization efficiency.



## Why private networks for distance learning?



- Broadband Internet connectivity for rural and underserved
- Improved coverage, range and density for better Quality of Service
- Cost efficient deployment architecture
- Lowest Operating Expense
- Community-wide local and rural coverage
- Assets can be re-purposed over time
- Security



## Chromebook and Notebook connectivity:

### MultiConnect® microCell

Private LTE OnGo CBRS Cat 6 USB Cellular Modem

Many school systems deploy Chromebooks or Windows Notebooks to their students, but without Internet access, their usefulness is severely limited. Adding a MultiConnect microCell CBRS modem to the USB port solves the issue instantly by providing plug-and-play access to the school systems OnGo network. These devices are ruggedized to withstand even the most playful students.



## Broadband access + in-home Wi-Fi

### MultiConnect® eCell

Private LTE OnGo CBRS Cat 12 Cellular to Ethernet Bridge

For multi-student households, the MultiConnect eCell CBRS to Ethernet bridge pairs easily with your choice of Wi-Fi hot spots with a simple Ethernet cable to make it easy to attach a large number of devices to the Internet over a CBRS network at home or anywhere there is OnGo coverage. The OnGo network backhaul lets the school system control Internet traffic for student safety and to avoid competition with other local service providers.



## Mobile Hot Spot

### MultiConnect® rCell 600 Series

Private LTE OnGo CBRS Cat 12 Cellular Router

Deploy the MultiConnect® rCell 600 Series rugged, industrial router to school busses to establish mobile hotspots for up to 128 simultaneous Wi-Fi connections.

## What is CBRS?

CBRS is 150 MHz of spectrum – ranging from 3550 – 3700 MHz – in the 3.5 GHz band. Used sparingly by the U.S. government and other entities, this band was identified by the FCC as additional spectrum for shared wireless private broadband. OnGo, the name of the wireless services within the CBRS band, enables easy deployment of Private LTE networks to provide Industrial IoT connectivity that is optimized, secure, dedicated, and on-premise.

Such a private network is ideal for distant learning, not only for its cost efficiency and security, but it also enables Internet connectivity for rural and underserved locations. OnGo private LTE networks compliment public cellular and Wi-Fi networks and can provide coverage where neither exists.

## Why MultiTech?

- HQ and manufacturing in the USA
- First-class customer service
- 50 years of connectivity experience
- No recurring charges
- Once the network is in place, our broad portfolio can connect more assets for years to come
- Choice of public cellular and private LTE/CBRS devices allows you to offer a complete solution for your customer institutions.



Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

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