

SECURE CONNECTIVITY FOR REMOTE EDUCATION

SUMMARY

As the world is still paralyzed by actions taken to stop the spread of the novel COVID-19, many countries are facing different problems. Every day people are losing jobs, more and more people are getting sick, many businesses stopped working, and even some of them shut down their activities, at least while quarantine measures are still in place. Naturally, this includes all educational activities, including banning schools, universities, and kindergartens. Even though according to "KidsHealth" virus seems to cause a milder infection in children usually, but they can easily create a danger to the adults.

CHALLENGE

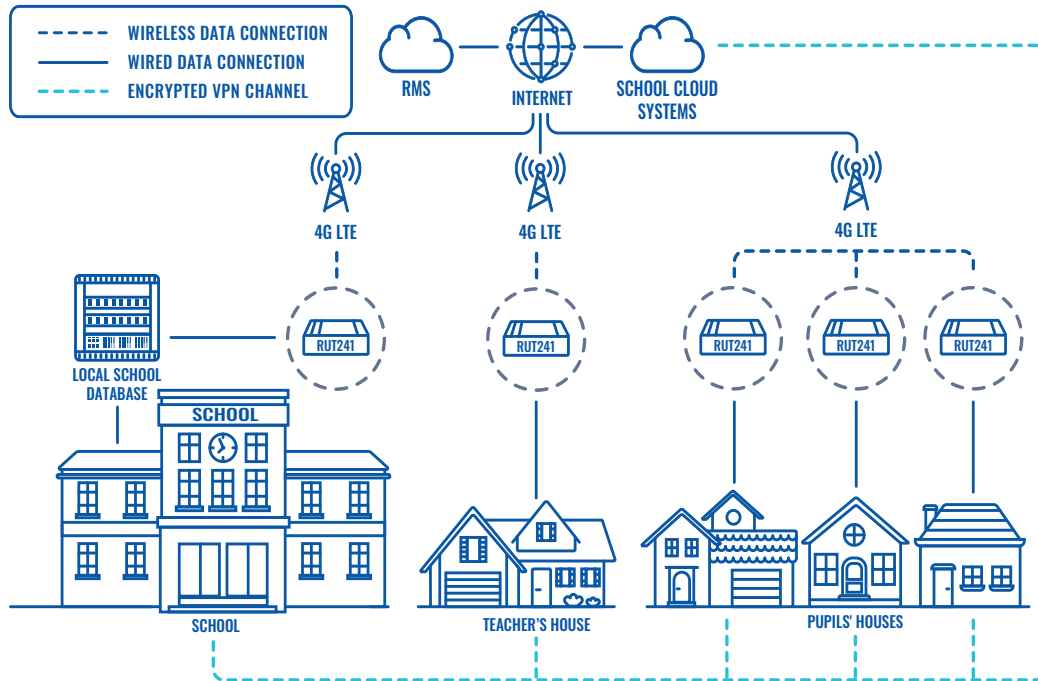
Strict quarantine measures are here to save lives. However, public and private institutions are looking for ways to continue educational services because nobody knows how long the quarantine measures and social distancing initiatives will take place. Naturally, the best way to do that is to enable learning from home remotely utilizing video conferencing tools and cloud-based applications accessible over the Internet. However, not every household has a stable and reliable internet, and some families don't have Internet access at all. According to the National Center for Education Statistics about 10% of USA households do not have access to the Internet, which amounts to about 12 million homes. Besides, video conferencing tools require stable and substantial throughput. In addition, access to internal school systems and databases must be secured using VPN channels to ensure it does not get compromised. So, how to provide a stable, reliable, and secure internet connection for students and teachers and allow them to use all necessary educational materials and applications freely?

SOLUTION

The best way to ensure stable, reliable, and secure internet connectivity for households and provide the possibility for remote education activities is to use a VPN cellular router. Creating a secure and encrypted link to schools, homes of the teachers, and student households are the priority because otherwise, internal education systems could get compromised. For this particular case, RUT241 was chosen because it offers the best value when it comes to easy set-up, reliable cellular connectivity, and features. This professional cellular router is the best seller from our portfolio because it features 4G LTE with robust Wi-Fi and even two physical Ethernet interfaces.

With RUT241, students can connect Laptops, Tablets or PCs. Furthermore, RUT241 supports Teltonika’s Remote Management System (RMS), which allows configuring an infinite amount of devices before shipping them to student households, leaving them with a few simple steps to set up, such as powering up the device and attaching antennas. Furthermore, with RMS – the system operator can track data usage, generate customizable reports, and troubleshoot any problems even without Public IP. Besides, RUT241 comes with advanced content filtering features, which are essential to make sure students can access what is needed for their education and preventing access to unwanted websites.

TOPOLOGY



BENEFITS

- Reliability – RUT241 is designed and manufactured for professional and industrial applications in mind following meticulous Teltonika manufacturing procedures with 4 level testing procedure. Besides, all RUT241 are produced in Lithuania, Europe.
- Multi configuration – using RMS, there is a possibility to preconfigure all Teltonika routers in a single-window – remotely, even without Public IP!
- Robust performance – RUT241 has an excellent 4G LTE Cat 4 module which is capable of providing speeds up to 150 Mbps.
- Security – RUT241 supports multiple VPN options, including OpenVPN, L2TP, DMVPN, and has numerous security features, including Firewall and Content Filtering.

WHY TELTONIKA?

The main competitive advantages of Teltonika Networks’ products are security, reliability, and ease of use. Even though RUT241 was created with professional IoT or industrial applications in mind, it has become the favorite device by our partners. It is commonly used across all industries where connectivity is needed. Together with Remote Management System – RUT241 is an ideal solution to offer zero-touch, fast deployable, and scalable connectivity to enable remote education activities.

