

# VOIP CONNECTIVITY ACROSS BRANCHES AND HOME OFFICES

## SUMMARY

More than 30% of all businesses use VoIP systems. The Global VoIP market share is expected to reach \$55 billion by 2025. Although the biggest spurt in growth was up to 2012, it remains growing steadily to this day, and not without a reason. It is a cost-efficient and convenient way for a business to set up communication with other VoIP or landline users via the internet. It is expected that small to mid-size businesses will find VoIP especially attractive in the coming years due to smaller costs of implementation and remote work trends.

## CHALLENGE

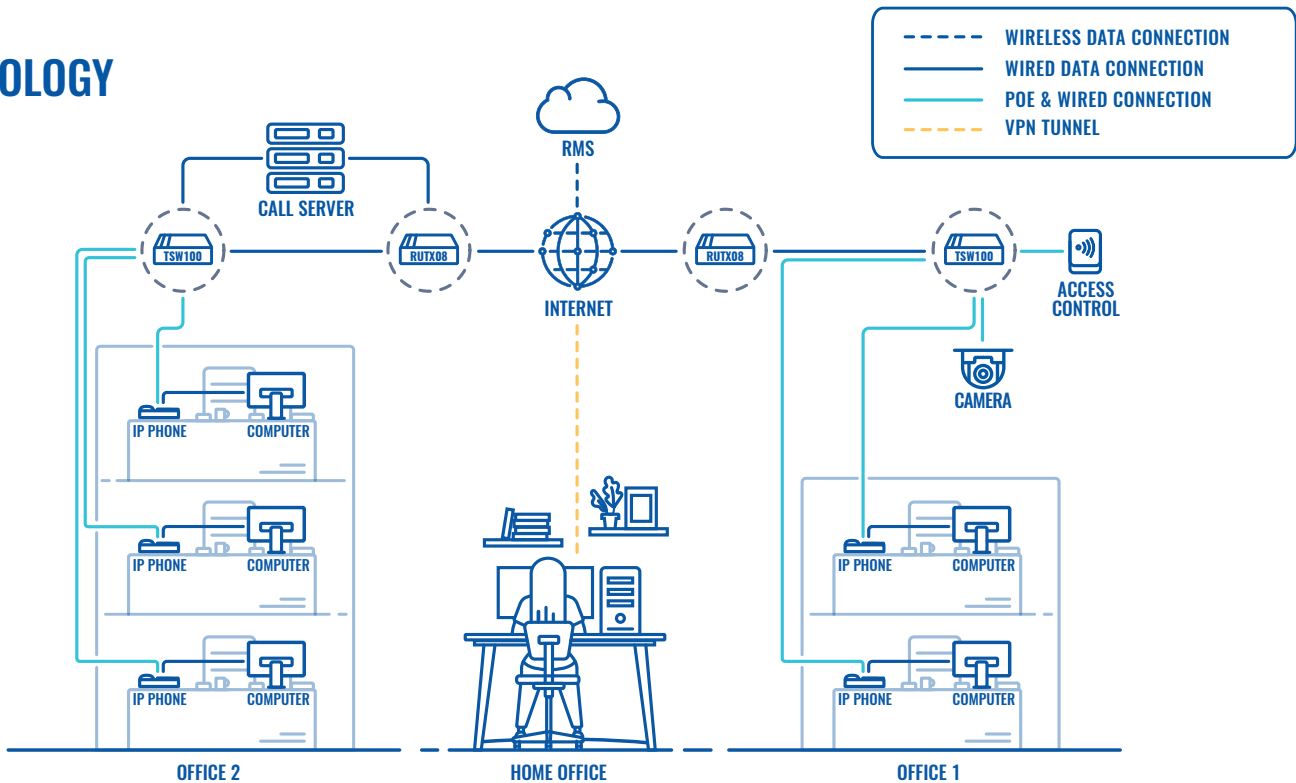
The use of VoIP technology is growing due to its' many benefits. One of them is flexibility due to the variety of devices and platforms users can use to place calls from, like IP phones, handsets, desktop phones, mobile apps, and so on. It also gives more mobility, since this method does not require to have a landline and works with an internet connection that is much more widespread. This becomes especially relevant now with the rising demand for remote work. It would be difficult to provide a landline to each employee working from home, whereas the internet connection is usually present in every household.

However, there are certain challenges to consider regarding the VoIP system. VoIP requires a broadband connection with high-data throughput, otherwise, the call quality may suffer. Outdated equipment might also have negative effects. The right networking products are essential to achieve maximum results and ensure security. VPN data encryption and Firewall are a must-have to keep the business conversations private and confidential information safe.

## SOLUTION

In this solution, remote offices and employees working from home can use the same Call Server, connected to the internet using a RUTX08 Gigabit Ethernet router. RUTX08 offers enough data throughput for a bandwidth-demanding VoIP system and ensures reliable internet connectivity.

## TOPOLOGY



In the headquarters, TSW100 is used to connect the multiple IP phones in the office to the internet and powers them up at the same time, making the setup process very simple and quick. TSW100 switch can power up other devices as well, like IP cameras and Access Control System, as you may notice in the Branch connectivity bit.

RUTX08 comes with built-in RutOS software, offering advanced security features, such as multiple supported VPN services, Firewall, making this device a superb performer for such solutions. Firewall and VPN encryption ensures that the communication is taking place securely, even when the employees are working from their homes. Remote Management System (RMS) allows to configure all routers remotely and even reach the devices behind them, like the IP phones, cameras via RMS Connect.

## BENEFITS

- Gigabit Ethernet – RUTX08 offers enough bandwidth to ensure good call quality.
- Easy and economical setup – using TSW100 reduces the number of wires and the setup time.
- Security – provided by Firewall and VPN data encryption.
- Remote Management – with RMS Connect IT administrators can reach the routers and devices behind them for updates, maintenance and configuration.
- A single vendor to connect everything – TSW100 allows to connect the IP phones, cameras, Access Control, making the maintenance process easier.

## WHY TELTONIKA NETWORKS?

To ensure high-quality calls, reliability, and top-level security, companies must invest in their network infrastructure. Using outdated equipment will not deliver the desired results, and at the same time, with the constantly evolving nature of technology, timely updates and maintenance must be carried out to keep the systems up to the highest standard. Teltonika Networks products receive periodical firmware updates to maximize performance and they can be efficiently implemented remotely via RMS, without high time resources and much disruption to daily activities.

