4G ROUTER FOR PHOTO BOOTH-TO-SERVER DATA TRANSFER

HIGHLIGHTS

- Dedem S.p.A. is an Italian company offering innovative IoT solutions such as automated photo booths and entertainment systems. The company integrates technological advancements to develop versatile products that meet international market needs.
- Dedem develops photo booths controlled and maintained via single-board computers (SBCs), which relay commands between users and a cloud-based operating system. To ensure smooth user experience, reliable connectivity was essential.
- This is why Dedem chose Teltonika's RUT200 4G router, capable of providing seamless connectivity and continuous data transfer between endpoints. Along with RMS, Dedem uses the RUT200 to establish secure VPN tunnels and enable remote management for performing all kinds of system diagnostics and configuration.

THE CHALLENGE – FOCUS ON THE DETAILS

Oh, how effortless it is to step into a photo booth, take pictures, and receive instant results either as physical prints or digital copies. No hassle with ink levels, paper jams, or misaligned frames—that's the magic of a well-designed user experience.

However, the technical side tells a different story: one of necessary complexity.

As simple as they may seem, photo booths manage multiple tasks simultaneously: image processing, data transfer and storage, and photo distribution. In addition, many even offer real-time features like filters and branded overlays, which rely on network connectivity to function properly.

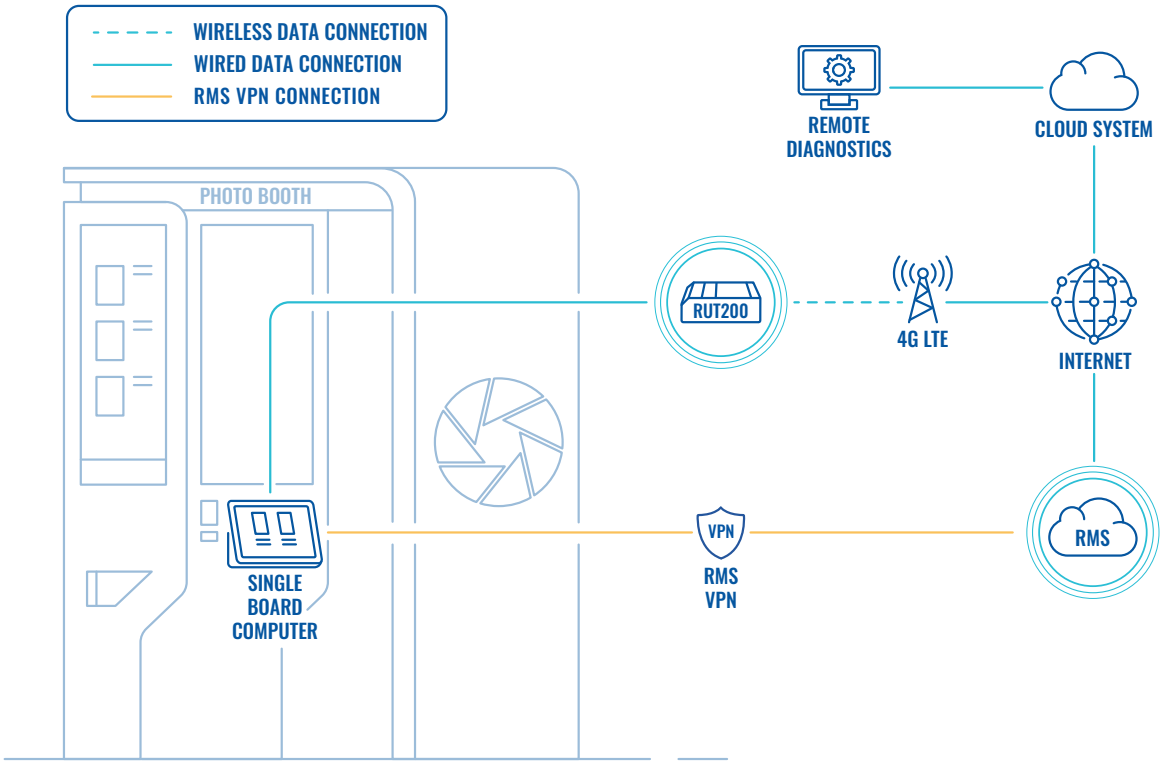
Maintaining these machines also demands regular software updates to ensure smooth operation, data privacy, and the security of digital photos. As you'd expect, this, too, depends on remote management and continuous Internet support. And that's just scratching the surface.

Companies like Dedem S.p.A. design their photo booths using single-board computers (SBCs), which relay commands between users and a cloud-based operating system.

While local caching can save one or two operations in case of connection loss, longer disruptions of such communication can impact performance and availability. So, it becomes clear that without reliable and continuous connectivity support, that seamless user experience can quickly unravel.

Now, here's the real question: what's the best way to keep everything running smoothly and with an Internet connection available at all times? By choosing a networking device you can trust!

TOPOLOGY



THE SOLUTION – PICTURE-PERFECT CONNECTIVITY

Dedem is undoubtedly a company with refined taste, having selected Teltonika's RUT200 4G router as the central component for connecting its photo booths to a remote system server and seamlessly managing numerous tasks in daily operations.

The RUT200 mobile router is one of the best-selling devices in Teltonika's portfolio, with many factors contributing to its top position, foremost being its reliable connectivity.

If your connection is unstable, is frequently interrupted, or causes issues, this 4G router is the device to consider. Connected to the SBC via an RJ45 port, the RUT200 provides a robust LTE connection to this solution, even in challenging conditions like heavy rain or strong winds—perfect for remotely controlled photo booths.

By providing a stable connection, this 4G router ensures that every command sent from the photo booth to its cloud-based operating system is received, leaving users satisfied with their experience. However, reliable connectivity is just one of its many strengths.

The RUT200 mobile router runs on RutOS, Teltonika's operating system (OS) developed in-house, making the router highly customisable and tailored for specific needs. Whether it's enabling data transfer via industrial communication protocols or adjusting connectivity settings for optimal performance, RutOS has it covered.

Besides this, the RUT200 4G router features industrial-grade aluminium housing, allowing it to withstand harsh environments. It operates seamlessly in temperatures from -40°C to 75°C and handles humidity levels from 10% to 90% (non-condensing), ensuring reliable performance in any weather or situation.

Another critical element of this solution is Teltonika's Remote Management System (RMS). With RMS, Dedem can remotely access individual photo booths, monitor the 4G router's data, and perform diagnostics such as checking and resetting hardware peripherals when necessary. Additionally, RMS Connect and VPN allow the establishing of VPN tunnels for secure connections and control of a photo booth's SBC.

In essence, this use case revolves around creating a cloud-managed, remotely accessible system for operating and maintaining automated photo booths, ensuring high operational continuity, real-time diagnostics, and remote support. And you can trust that the RUT200 4G router will not let you down.