



# TELTONIKA RUT906 Cellular Router For Thermal Response Test User Guide

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Networks

## USE CASE // INDUSTRIAL & AUTOMATION CELLULAR ROUTER FOR THERMAL RESPONSE TESTS

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## RUT906 Cellular Router For Thermal Response Test



## HIGHLIGHTS

- ✓ Ello Research is a French engineering and design company, utilising the SaaS model to provide cloud-hosted applications to their clients.
- ✓ For its construction site TRT networking solution, Ellen Research needed a dual SIM cellular router with an RS485 interface to enable reliable connectivity for telemetric transmission.
- ✓ Our RUT906 LTE router is the perfect device for the job, featuring auto-failover, a dedicated RS485 interface, and support of additional key serial interfaces – all at an affordable price.

## THE CHALLENGE – CONSTRUCTING FROM THE UNDERGROUND UP

When we think about construction sites, we often fixate on the equipment above ground. Cranes, bulldozers, excavators, etc. all come to mind.

But in reality, the underground deserves just as much attention.

Geothermal [ground source heat pumps](#) and seasonal [thermal energy storage systems](#), for example, are an essential part of the infrastructure being built in construction sites. For these to be built, a [thermal response test](#) (TRT) must be conducted. This test is an indirect way to determine the thermal properties of the ground, so that construction can be planned with these properties in mind.

TRTs involve measurement equipment and a PLC to control said equipment. In order to maintain the acquisition of real-time data, which is vital for accuracy, the equipment needs to be connected to the Internet. This way, the data can be remotely collected in a dedicated cloud server and the test operation can enjoy remote monitoring with maximum efficiency.

Our partner, Ello Research, needed a cellular router for its construction of geothermal projects in France; an LTE router capable of enabling remote management, maintaining a steadfast connection, and having a few failsafe tricks up its metallic sleeve.


## TOPOLOGY



notice.



Documents / Resources



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RUT906 Cellular Router For Thermal Response Test, RUT906, Cellular Router For Thermal Response Test, Thermal Response Test, Response Test, Test

References

- [User Manual](#)

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