

# Line Status Monitoring, Threshold Warning and Fault Location for Smart Grid in China

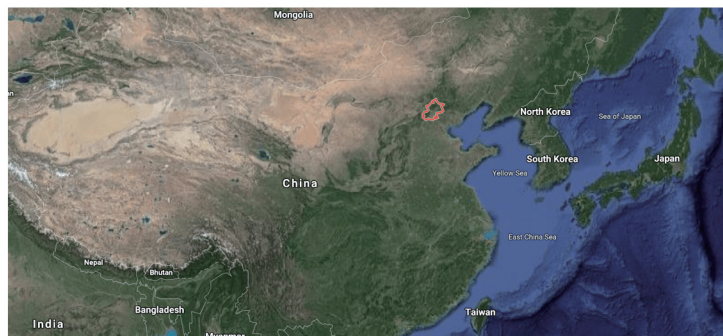


## Ursalink Monitors Line Status, Threshold Warning and Fault Location for Smart Grid in China

A smart grid is an electrical grid which includes a variety of operation and energy measures ranging from meters to controllers for data collection. Operators rely heavily on the timely data report that collected from the dispersed controllers and the IP cameras to make the right decision during the remote monitoring of line status, threshold warning and fault location for smart grid operation. In this scenario, the UR32 cellular routers are widely used to minimize the cost of downtime and bring distributed sites online faster.

### PROJECT

Ursalink UR32 cellular router is designed to deliver reliable LTE connectivity to any remote location or hazardous environment.



### KEY WORDS

- Smart Grid
- Remote Assets
- Modbus Controller
- Security Monitory

### HARDWARE LIST

UR32 Router (PoE /RS485)

- Always-on M2M connectivity
- Industrial-grade enclosure
- Versatile and compact solution
- Additional RS485 port, optional GPS and Wi-Fi support

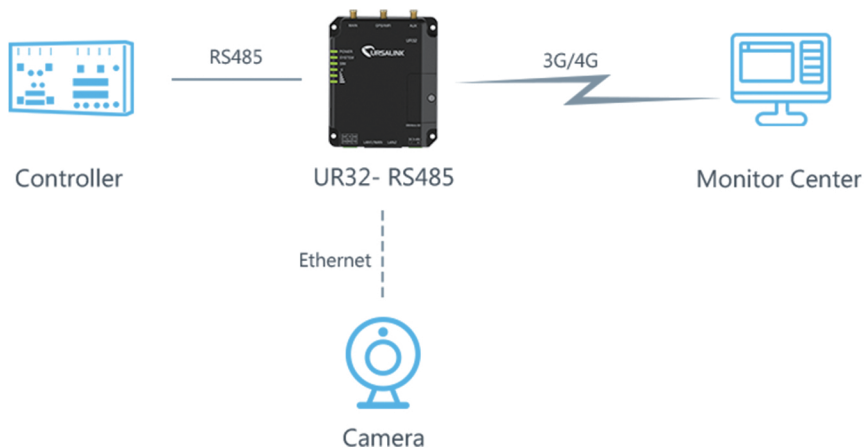


## SOLUTION

Recently, Ursalink cooperated with The State Grid Corporation of China to fulfil a smart grid project successfully. The RS485 controllers, IP cameras and Ursalink cellular routers are working smoothly in smart grid.

From the below topology we can see, the additional RS485 serial port on UR32 cellular router connects with a controller through Modbus that allows for the conversion of the legacy protocol. Operators are able to receive alerts and make response expeditiously depending on the accurate data that transferred from router when abnormal situation arose from the lines. And through the PoE interface, the UR32 router provides an out-of-the-box, secure, managed LTE network for the connected IP camera.

Here, UR32 cellular router works as a data packet forwarder and delivers all information to the monitoring center via 4G LTE cellular network.



## BENEFITS

- Routes data in rugged environments
- Transits massive data timely
- Accelerates deployment of high performance 4G LTE cellular network
- Provides secure connectivity, location-based services and remote management
- Intelligently manage and monitor line status, threshold warning and fault location

## ABOUT STATE GRID CORPORATION OF CHINA

The State Grid Corporation of China, commonly known as the State Grid, is the state-owned electric utility monopoly of China. It is the largest utility company in the world, and as of 2019, the world's fifth largest company overall by revenue.



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