



IoT-Enable Cellular Internet Access For Remote Environmental Monitoring

NavigateWorx Router provide 3G/4G LTE Wireless connectivity in your environmental solution

Environmental monitoring takes place in remote locations.

Portability from site to site is important. Navigateworx Router allows for 100% wireless/solar data and image collection.

Environmental scientists could focus on the data and not on systems integration.



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Summary

Environmental monitoring in pollution reduction, pollution sources census, soil survey, macro strategy research, water projects and other key environmental protection work, wireless technologies has played an important role. In recent years, environmental monitoring business with deep and environmental requirements of the situation, monitoring capability is not strong, the level of monitoring hysteresis, monitoring equipment and other issues of aging gradually exposed, has become a constraining the development of the important factors of environmental monitoring. Environmental monitoring development and reform is urgently needed.



Customer Needs

With the rapid economic and social development, environmental issues have become increasingly prominent, specific terms PM10, PM2.5, STP, global warming, energy conservation and environmental protection and other fields, has become the world's countries and peoples of the focus of attention, people gradually raise awareness of environmental protection and continuous

improvement of the national environmental protection requirements.

A variety of sensing requirements –

Environmental monitoring encompasses the sensing or sampling of a range of chemical, biological, and other parameters to support impact assessments, R&D, and compliance monitoring.

Moving toward continuous monitoring –

Advances in low-cost sensors, as well as communications, are enabling a move to continuous monitoring for many applications. This entails in-situ sensors combined with local processing and communications for logging, processing, storing, and communicating data to Environmental Monitoring Data Center.



Solutions

Using NR500 LTE VPN Router on environmental information collection and transmission system based, to achieve environmental protection information acquisition, the wireless data transmission can make full use of the existing network, shorten the construction period, lower construction cost advantages, and equipment installation convenient and simple maintenance.



Benefits

Real Time Connectivity

Wireless data transmission equipment has the characteristics of real time online, no time delay, and the data of multiple monitoring points can be received and processed simultaneously without the need of wheel inspection. It can be very good to meet the requirements of real-time data acquisition and transmission system.



Low Construction Costs

Due to the use of public network platform, without the construction of the network, only need to install the equipment can be good, low cost of construction.

Wide Range Monitoring

Construction of environmental protection information collection and transmission system requires a wide range of data communication

coverage, unlimited expansion, access to the site without restrictions, to meet the needs of the mountains, towns and cross regional access. Because of the large number of environmental information collection points, distributed in the province, some environmental information collection point is in the remote area, and geographical location is scattered.

Good Scalability

Due to the current public network has covered in most areas, there is no blind area, can realize online monitoring a wide range of environmental information collection and transmission system to meet the coverage requirements.

About NavigateWorx

NavigateWorx Technologies provides Products, Services, Solutions and Support to the emerging Machine-to-Machine Industry. Our goal is to assist in your efforts to bring Industrial Projects to life, implement Wireline & Wireless Technology Solutions in your Business to simply keep your Devices, Employees and Business connected. That is NavigateWorx.

