

# Wireless data transmission in Emdoor rugged tablet

## Technical background

The wireless data transmission module is a modular product of the data transmission station, which refers to the high-performance professional data transmission station realized with the help of DSP technology and radio technology.



## Application

The application of wireless data transmission module is very wide, such as wireless meter reading system for water and electricity, hydrological monitoring, oil pipeline monitoring, industrial monitoring, etc. We apply the wireless data transmission module to the rugged tablet terminal. The wireless data transmission module has a variety of ISM frequency bands such as 433MHz, 450MHz, 470MHz, 868MHz, etc. 8, 16, 32, 64 and many other communication channels. 1200bps, 2400bps, 4800bps and other transmission rates. 8N1, 8E1, 8O1 and other data formats. Multiple interface modes such as RS232, RS485, TTL, etc. All of them can be arbitrarily set and selected according to a series of requirements such as transmission distance. The application of the wireless data transmission module can perfectly replace other conventional communication methods of the ruggedized and solve the problems of real-time sending and receiving, transfer, and transmission of data.





### Advantage

1. In the application of the smart meter reading system, the wireless data transmission module is connected to the sensor (counter) of the gas meter and is in a complete sleep state. When the sensor (counter) detects the signal coming in, the wireless data transmission module is The data is automatically reported to the concentrator, and then enters the sleep state again, waiting for the next awakening. When reading the meter with the industrial panel, only the data in the current concentrator can be copied. If the user is in arrears, the relevant instructions can be transmitted to the concentrator through the tablet terminal and then transferred to the gas meter to close the valve.
2. In the application of hydrological monitoring, there are problems such as scattered monitoring points, wide distribution, and harsh surrounding environment. Through the direct connection between the wireless data transmission module and the water level sensor for automatic monitoring, real-time hydrological information collection, transmission and processing can be carried out. The collected water level data and alarm information are sent to the hydrological monitoring department in time, and the water level information can be copied through the Emdoor rugged tablet terminal, as well as the timely management of monitoring units and individuals. Thereby greatly improving the work efficiency of the hydrological department.

### Related device



EM-I16H