

VW3071-USB RF Module

VW3071 series wireless modules are built on the top of Semtech's newest high performance LORA RF chip - SX1262, which with higher rf output power, high sensitivity, gives stable and reliable long linkage range. The advantage of LORA modulation has remarkable high sensitivity and thus helps to extend communication range.

VW3071 series modem built-in with a transparent data communication protocol.

It also equipped with other enhanced protocol, for example, the point-point, point – multi points, and master-client, etc.

It is allowed to change the operation modes on the field.

Aside from the powerful LORA modulation, VW3071 series modem also have the GFSK setting enabled. When GFSK enabled, it can communicate with our other standard fsk/gfsk production line, for instance, the VW320A series modem.

And, a wmbus-T1 receiver protocol is ready for VW3071 series. We can use this device as a handy usb wmbus receiver which will report the wmbus-T1 raw data.

A user friendly PC program is provided to easy the parameter configuration.

Major parameters:

Frequency band	: ISM 433/868/915MHz
Interface	: USB
Modulation	: LORA/GFSK
RF TX. Power	: 125mW (21dB)
Supply Voltage	: +3.3V~+5.5V
RF data rate	: 300bps~115200bps
Channel numbers	: 100
Linkage range	: FSK: 1.5km, outdoor, L.O.S (@ RF rate 9600bps) LORA: 6km, outdoor, L.O.S (@ RF rate 500bps)
Operate temperature	: -30°C ~ +80°C
Dimension	: 70mm x 24mm x 12mm(with casing)
Interface footprint	: USB (type A)
Antenna impedance	: 50Ω



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Major applications:

- Wireless 232 or 485/422 data link.
- Water, electricity, gas and other automatic meter reading (AMR) system.
- Building automation system; Security entry system.
- Intelligent traffic; Vehicle Control.
- Wireless scanner.
- Restaurant Order System Management.
- Industrial control, remote sensing, automatic data collection system.
- Wireless data transmission.
- Wireless electronic display screen.
- Telemetric systems.
- Oil Well Measuring, Environmental Protection Monitoring.
- Hydrology Water Level Monitoring; etc.

