



WFBLE.DTU.Bar-06B

Product Specification

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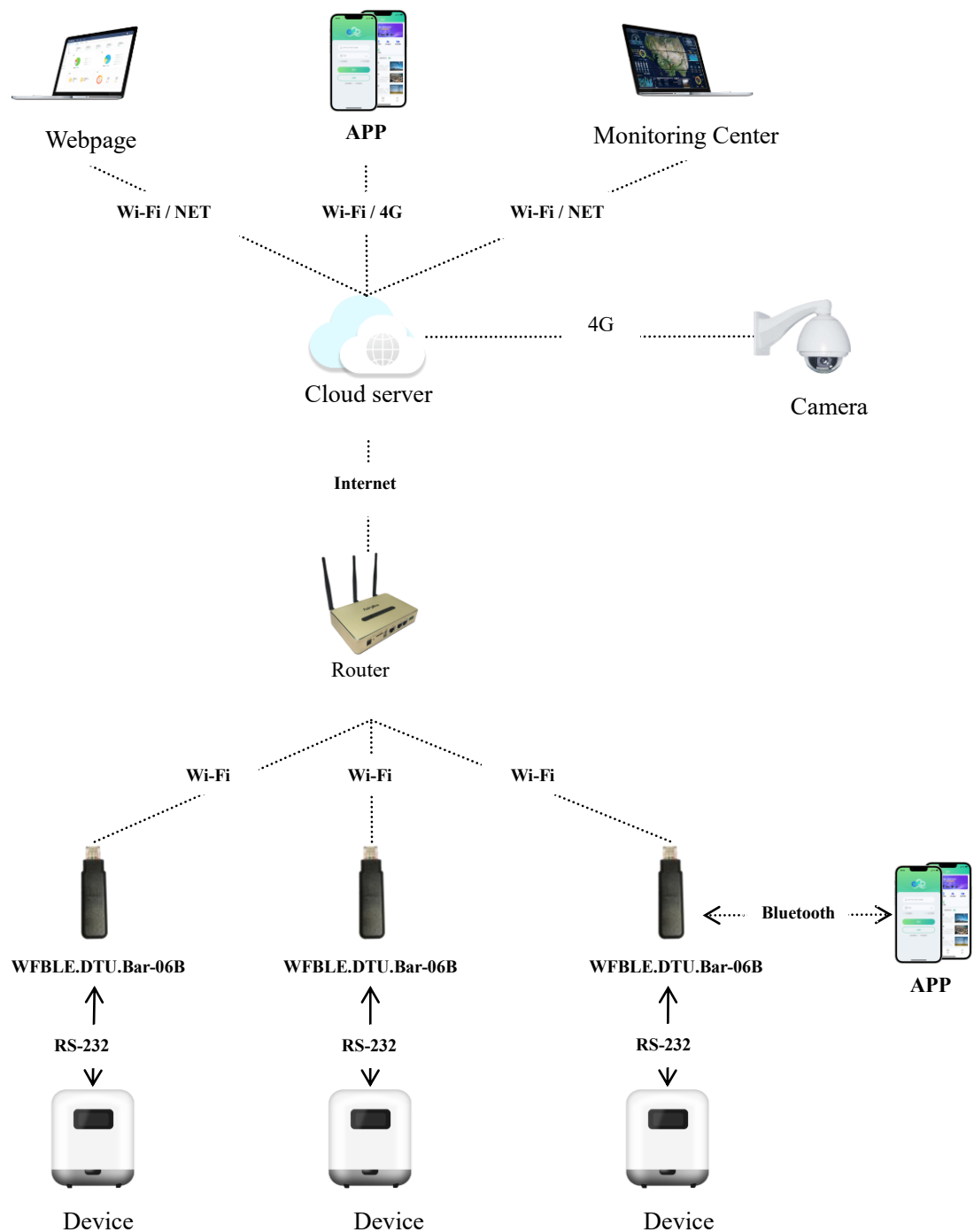
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1. Product Overview

WFBLE.DTU.Bar-06B the data logger product is used to extend the network data transmission channel of the Wi-Fi of the device. It communicates with the device through the RJ45 interface (serial RS-232) and is fixed on the device. easy to install, strong anti-jamming ability, no need to configure additional power and antenna advantages; Supports remote control, remote debugging, remote upgrade and other functions of the device; Access Cloud Server with Operator Base Station. It provides users with a complete monitoring solution with low cost, visualization and remote operation.。

Typical networking scheme of WFBLE.DTU.Bar-06B





2. Product Features

2.1 Easy to use

- (1) Simple installation: connection of RJ45, plug and play;
- (2) Loss replacement is simple: external plug-and-drop, no need to disassemble the device, safe and fast;
- (3) Simple maintenance: remote debugging, remote firmware upgrade;
- (4) Easy to use: the first step is power on, the second step is networking, and the third step is registration;
- (5) Convenient power supply: take power directly from the equipment side;
- (6) Barrier removal is simple: four LED lights indicate the operation status and intuitively understand the working status

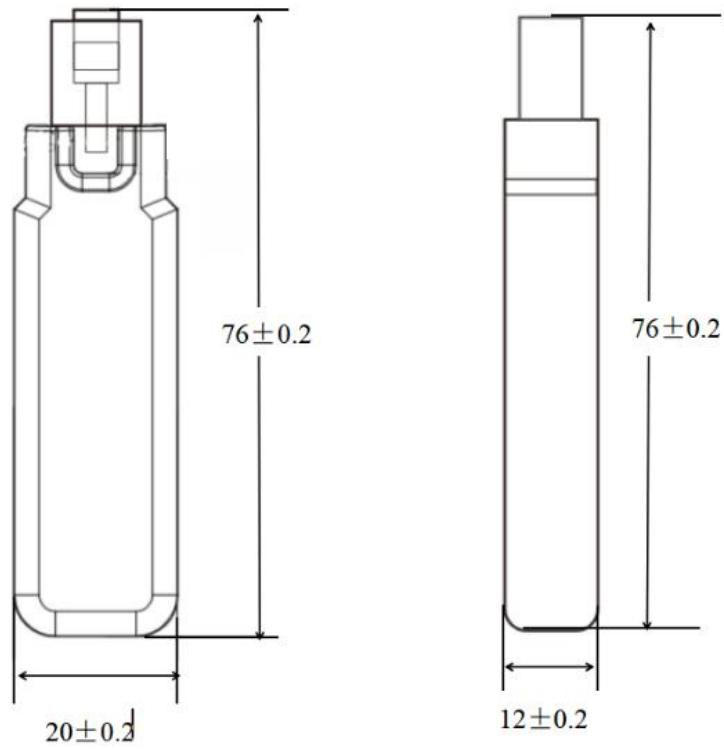
2.2 Stable

- (1) Selection of devices: industrial grade components, can work for a long time at $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$;
- (2) Protective measures: under-voltage protection, double protection of software watchdog + hardware watchdog;
- (3) Stability mechanism: Heart beat detection, network retry, device disconnection repair automatically;
- (4) Data security: Private protocols, data validation.

2.3 Flexible

- (1) Protocol adaptation: support automatic identification of multiple communication protocols;
- (2) Field configuration parameters: cooperate with APP to view and configure equipment parameters on site;
- (3) Remote monitoring: can be viewed remotely through the APP.

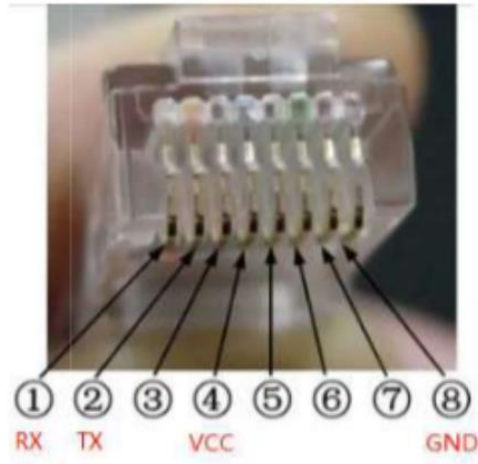
3. Overall dimensions of products



Unit: mm

4. Product Interface

4.1 Port Definition



RJ45 terminal, pin function definition is shown in the following table.

Pin	Pin definition	Description
1	RS232-RX	RS232- Receive
2	RS232-TX	RS232- Sending out
4	VCC	Input DC Voltage 5V~12V
8	GND	Power source GND

4.2 Definition of indicator light

Number	Silk screen printing	Description
1	PWR / Power status	Light on: external power input Light off: abnormal external power input
2	COM / Device communication status	Light on: Device communication succeeded Light off: Device communication failed
3	NET / Network linked status	Light on: Network linked succeeded Light off: Network linked failed
4	SRV / Server linked status	Light on: Server linked succeeded Light off: Server linked failed



5. Product Specifications

Content	item	parameter
Universal parameter	Dimensions (length/width/height)	76*20*12mm
	Weight	12.2g
	Protection Level	IP21
	Rated voltage	DC5V~12V
	Maximum Current	500mA(DC5V)
	Operating temperature	-40℃ ~+85℃
	Storage temperature	-40℃ ~+90℃
Universal parameter	RJ45	Used for communication and power supply
	Work indicator light	Pilot lamp: Power supplies, devices, routers, and servers are normally on, but not abnormally on
Bluetooth part	Bluetooth standard	BLE5.0
	Bluetooth distance	10meter
	Bluetooth local monitoring refresh rate	1seconds
	Bluetooth local monitoring of the command cycle	2seconds
	Connect Bluetooth local monitoring	First data in 5 seconds
Hardware part	Data entry mode	RS-232
	Data output mode	Wi-Fi
	RS-232 Baud rate	default 9600bps
	Hardware watchdog	support
Wi-Fi part	Working frequency	2.4GHz
	Wireless standard	802.11 b/g/n
	Antenna gain	2.5dBi
	Antenna	Built in PCB antenna
	Data rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
	Hardware encryption	WEP, WPA/WPA2
	Communication distance	30 meters (Open environment)
	Operating mode	AP+STA(Coexistence mode)
Software part	Work pattern	Transparent mode
	Wireless operation mode	STA/AP/AP+STA
	Security mechanism	WEP/WPA-PSK/WPA2-PSK
	Support cloud platform	Value of cloud, customers custom platform
	Restart mechanism	The system automatically restarts after 12 hours of continuous operation
	Software watchdog	support
other	Number of connected devices	1set
	Authentication	CE, RoHS