![Baimatech 佰马科技]

Industrial IP Modem
Specification

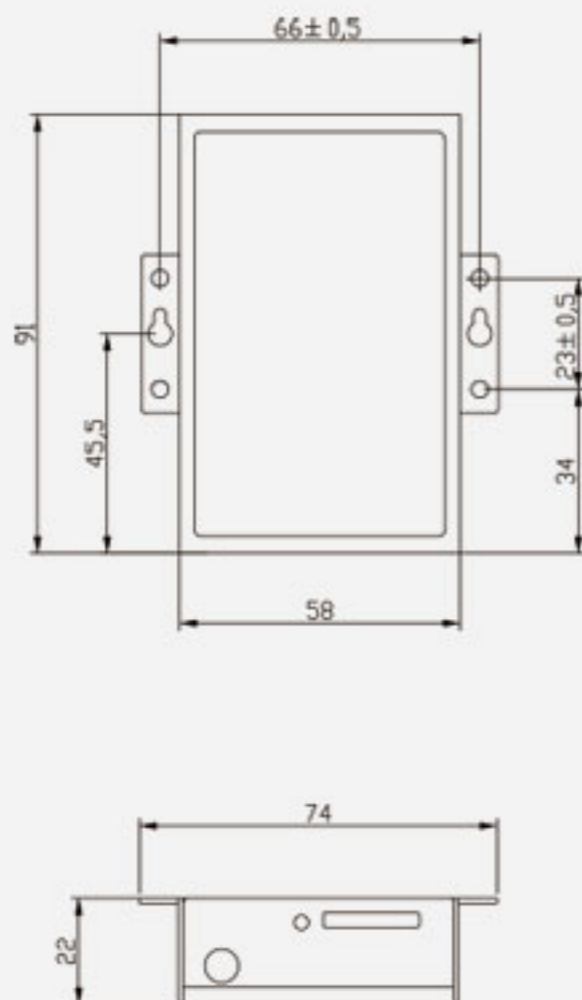# BMD200

Models : BMD200-G / BMD200-W / BMD200-LF

BMD200 industrial IP modem series is designed for wireless communication networking and transparent transmission based on 4G/3G/2.5G network. It supports to multiple industry transmission protocols overlay, including Modbus RTU, Modbus/TCP and so on. It can also customize private transmission protocol, and user specific protocol package or conversion protocol overlay on the basis of transparent data. The equipment adopts module integration, with the advantages of rapid networking, flexible expansion, short construction cycle and low cost, it has been widely used in electric power, environmental protection, vehicle, water conservancy, finance, street lamp monitoring, heat pipe networking, oil field and other applications.
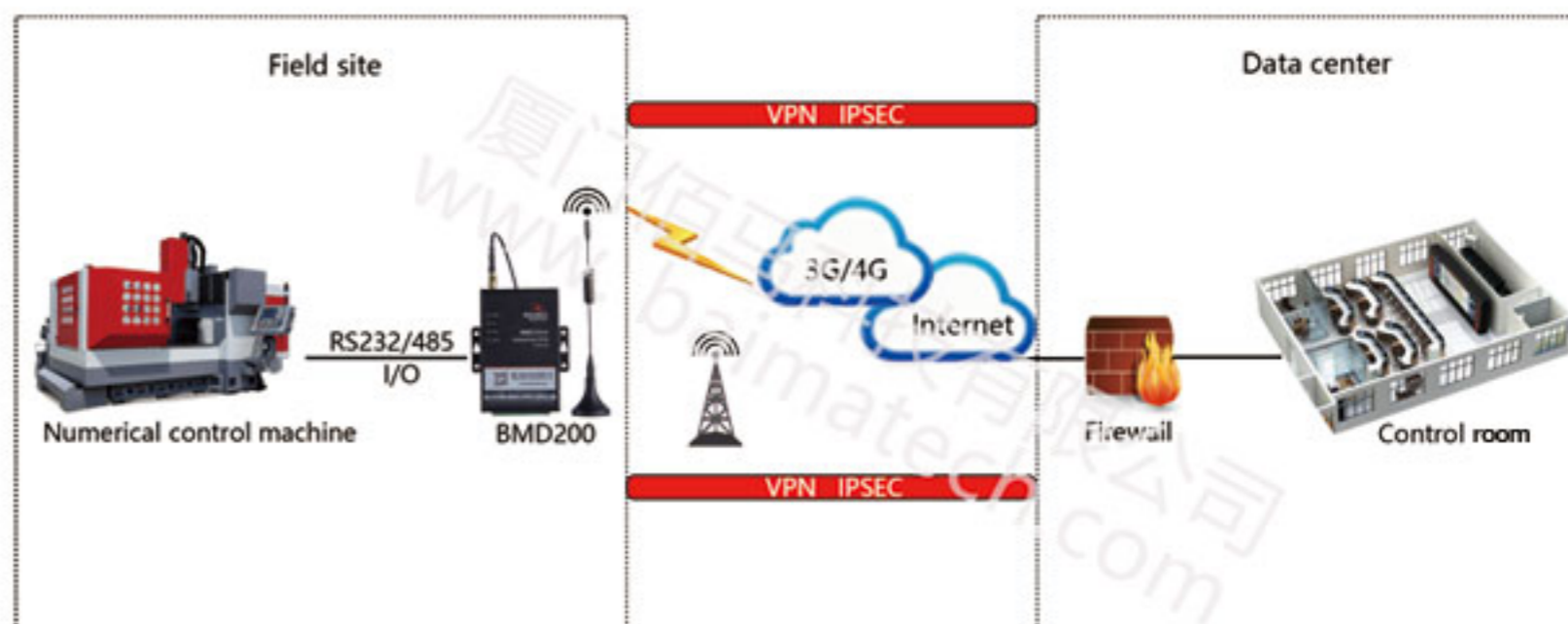
↗ Features

- Support Modbus RTU, modbus/TCP, etc
- Support private protocol customization
- I/O, ADC(optional), RS232, RS485 interfaces
- 4G/3G/2.5G network with courier approval
- Industrial grade design, high and low temperature (-35-75ºC), wide voltage (5-35V)
- Multiple hardware and software technology guarantee connection "permanent online"
- Financial level data security, private network access
- Support data multi center synchronous transmission
- Strong signal search and reception ability
- Compatible with city power, solar power, battery power
- Durable self locking card slot
- Dedicated device management tools, centralized monitoring, configuration, upgrading, diagnosis of a large number of distributed DTUs

↗ Dimensions

↗ Networking

↗ Specifications

Item	Content	Standard	Description
Interface	Serial port	X 1	Serial form: 12 PIN 3.5mm terminal Serial type: RS232/RS485 Baud rate: 1200~115200 bps Data format: 8 x data bits, 1 x stop bits, none/odd/even parity, no flow control
	Analog interface (optional)	X 2	Interface type: input Data format: 10 x AD Power input: 4-20mA current signal Voltage input: 0-5V voltage signal (optional)
	I/O	X 3	Application mode: input or output I/O Communication voltage: 3.3V
	SIM/UIM	X 1	Drawer type holder, standard 1.8V/3V SIM/UIM, 15KV ESD protection
	Antenna interface	X 1	Standard SMA female interface, 50 ohm
	LED Indicators	X 4	System, Power, ACT, Online
Power supply	Standard	DC 12V/0.5A	Reverse-voltage and overvoltage protection
	Voltage	DC 5V -- 35V	
	Current	<85mA (12V)	
Power Consumption	Communication	<1W	<85mA@12VDC; <155mA@5VDC
	Standby	<0.4W	<30mA@12VDC; <55mA@5VDC
	Sleep	<0.1W	<8mA@12VDC; <18mA@5VDC
Security	Link detection	PPP layer heartbeat, ICMP detection, TCP keepalive and application layer heartbeat and other multi-level link detection mechanisms, and support dropout reconnection	
	Watchdog	Self-diagnostic, auto-recover from failure	
Network management	Auto dailing	Auto dailing when powered	
	On-demand dailing	Activate by data/SMS/call, scheduled online/offline	
	Configuration	M2M equipment cloud platform, remote or serial port, SMS	
	Upgrade	Local or remote upgrade	
	Log	Local or remote log	
	Management	M2M equipment cloud platform	
	Configure backup	Configure file import and export	
IP grade	IP30	Iron housing	
Environment	Working	-35 - +75ºC	
	Storage	-40 - +80ºC	
	Humidity	95% (unfreezing)	
Physical	Installation	Wall mounted	
	Dimensions	91x58.5x22mm (excluding antenna and mounting)	
	Weight	208g	

↗ Ordering

Model	Network	Cellular frequencies
BMD200-G	GPRS	GSM850/900/1800/1900MHz GSM PHASE 2/2+ GPRS CLASS 10, CLASS 12 (optional)
BMD200-W	HSPA+/WCDMA	UMTS/WCDMA/HSDPA/HSUPA/HSPA+ 850/900/1900/2100MHz GSM 850/900/1800/1900MHz GPRS/EDGE CLASS 12
BMD200-LF	LTE/WCDMA	FDD-LTE 2600/2100/1800/900/800MHz，700/1700/2100MHz (optional) HSPA+/HSDPA/HSUPA/WCDMA/UMTS 900/2100MHz 800/850/1900/2100MHz (optional) EDGE/GPRS/GSM 850/900/1800/1900MHz GPRS CLASS 10 EDGE CLASS 12

↗ Included

DTU x 1   Antenna x 1   Power adaptor x 1   Serial cable x 1

Terminal block x 1   Warranty card x 1   QC certificate x 1