

## Industrial Router Specification

# BMR500

Models: BMR500-LF, BMR500-W

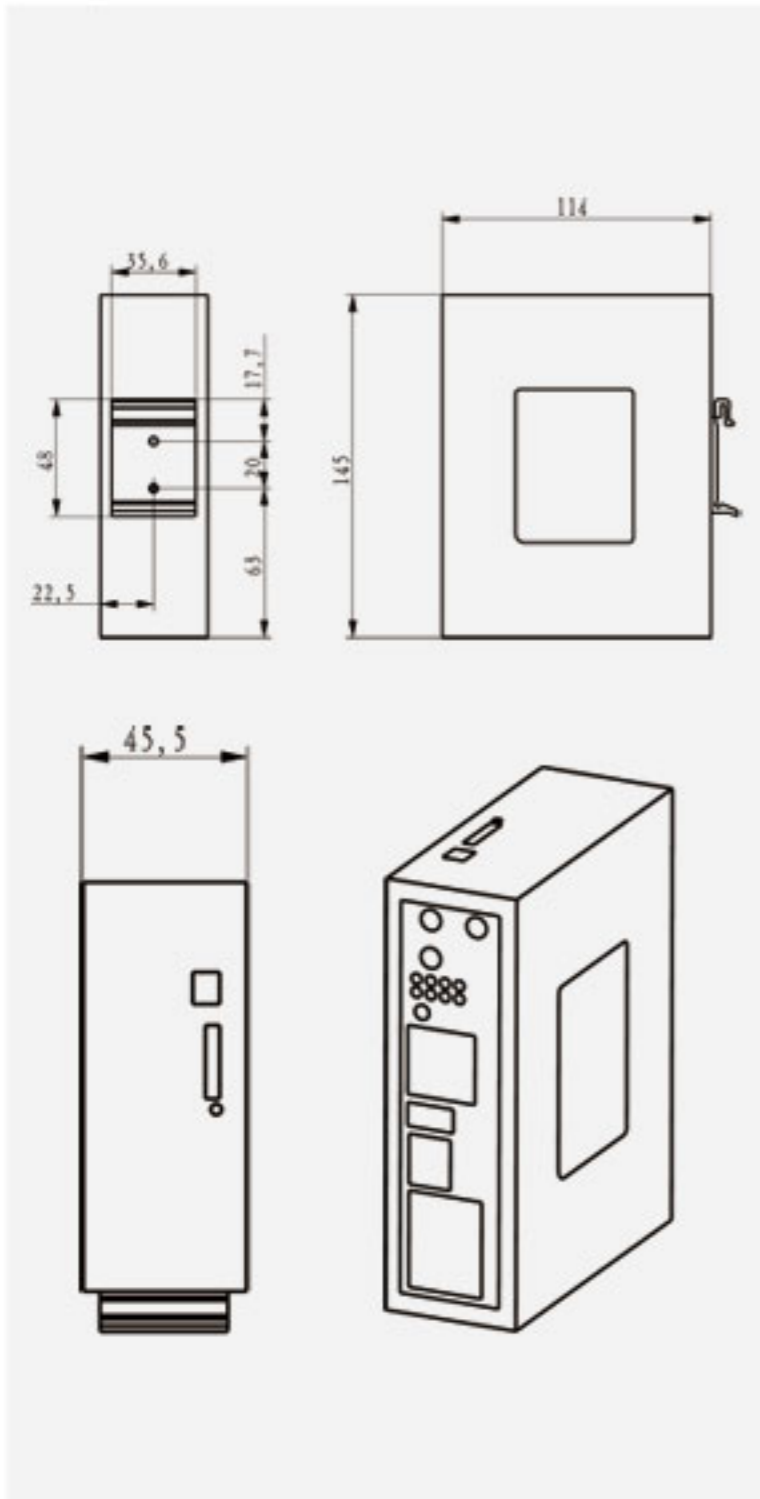


**BMR500 industrial IoT wireless router series** provides high-speed wireless connection by cellular 4G/3G/2.5G network. It integrates cellular network, high-speed routing, WIFI coverage, local storage and other flagship functions, and provides a permanent online communication network for the harsh unattended site. It is widely used in remote data acquisition, remote equipment monitoring, remote control, remote alarm and other fields, such as large-scale equipment monitoring, pollution source video monitoring, finance, traffic snapshot and so on.

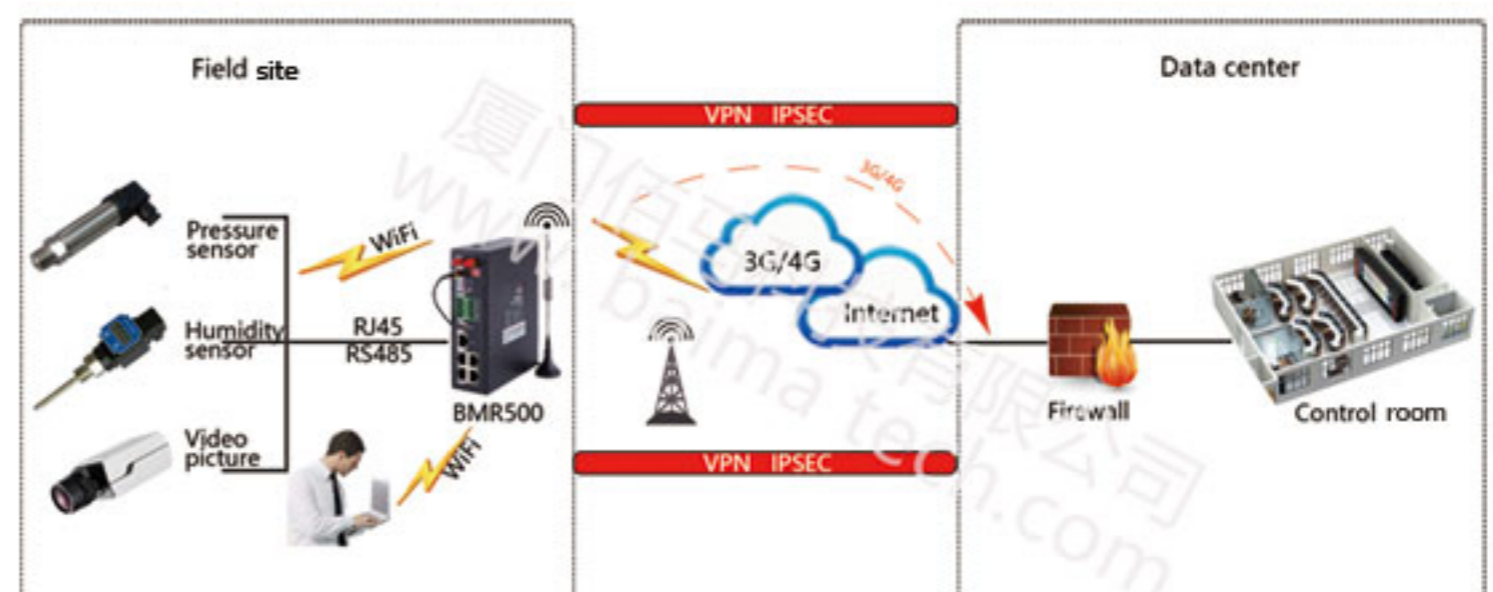
### Features

- 4 x LANs, 1 x WAN, 1 x USB, 2 x digital inputs, 2 x relay outputs, 1 x RS485, 1 x RS232  
WAN can act as LAN
- 4G to WIFI facilitate equipment rapid access and local configuration
- Max 32G storage
- Multiple hardware and software technology guarantee connection "permanent online"
- VPN special network and other multiple security mechanisms
- 4G/3G/2.5G network with courier approval
- Industrial grade design, high and low temperature (-35-75°C), wide voltage (5-35V)
- Durable self locking card slot
- Linux secondary development
- Configuration parameters can be saved, support parameter backup and import
- Equipment management platform, centralized monitoring, configuration, upgrading, diagnosis of a large number of distributed routers
- GPS positioning function (optional)
- DIN rail mounting

### Dimensions



### Networking



## Specifications

Item	Content	Standard	Description	
Interface	Serial port	X 2	Serial form: 6 PIN 3.5mm terminal Serial type: RS232/RS485 Spec: 1200~115200bps, 8 x data bits, 1 x stop bit, none/odd/even parity, no flow control	
	Ethernet	4 X LANs 1 x WAN	10/100M RJ45 port 10/100M RJ45 port, can act as LAN	
	USB	USB2.0	Data storage or firmware upgrade	
	Relay(optional)	X 2	Max 5A output, control external power supply	
	DI interface	X 2	DC 0-30V, detecting peripheral state, valid for >2V	
	CAN interface	X 1	Standard CANBUS	
	WIFI	Standard		IEEE802.11b/g/n
		Bandwidth		IEEE802.11b/g: 54Mbps (max) IEEE802.11n: 300Mbps (max)
		Security		WEP, WPA, WPA2, etc
	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 13		System, Power, Online, LAN, WAN, Alarm, Signal(3 x LEDs)	
Power supply	Standard	DC 12V/1.5A	Reverse-voltage and overvoltage protection	
	Voltage Current	DC 5V -- 35V <360mA (12V)		
Power Consumption	Communication	<4.32W	<360mA@12VDC; <864mA@5VDC	
	Standby	<2.64W	<220mA@12VDC; <528mA@5VDC	
	Sleep	<0.24W	<2mA@12VDC; <4.8mA@5VDC	
System	CPU	Industrial 32 bits CPU	Industrial grade	
	FLASH	16MB	Extendable to 64MB	
	SDRAM	128MB	Extendable to 256MB	
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 dialing	Auto dialing when powered		
	On-demand dialing	Activate by data/SMS, scheduled online/offline		
	Configuration	M2M equipment cloud platform, remote configuration		
	Upgrade	Serial port 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 - +75°C		
	Storage	-40 - +80°C		
	Humidity	95% (unfreezing)		
Physical features	Installation	DIN rail, wall mounted		
	Dimensions	142x112.5x44(excluding antenna and mounting)		
	Weight	790g		

## Ordering

Model	Cellular frequencies	VPN	WIFI
BMR500-LF LTE/WCDMA ROUTER	FDD-LTE2600/2100/1800/900/800MHz 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	Support	Support
BMR500-W HSPA+/WCDMA ROUTER	UMTS/WCDMA/HSDPA/HSUPA/HSPA+ 850/900/1900/2100MHz GSM 850/900/1800/1900MHz GPRS/EDGE CLASS 12	Support	Support

## Included

