# Baimatech 佰马科技

## Industrial IP Modem
## Specification

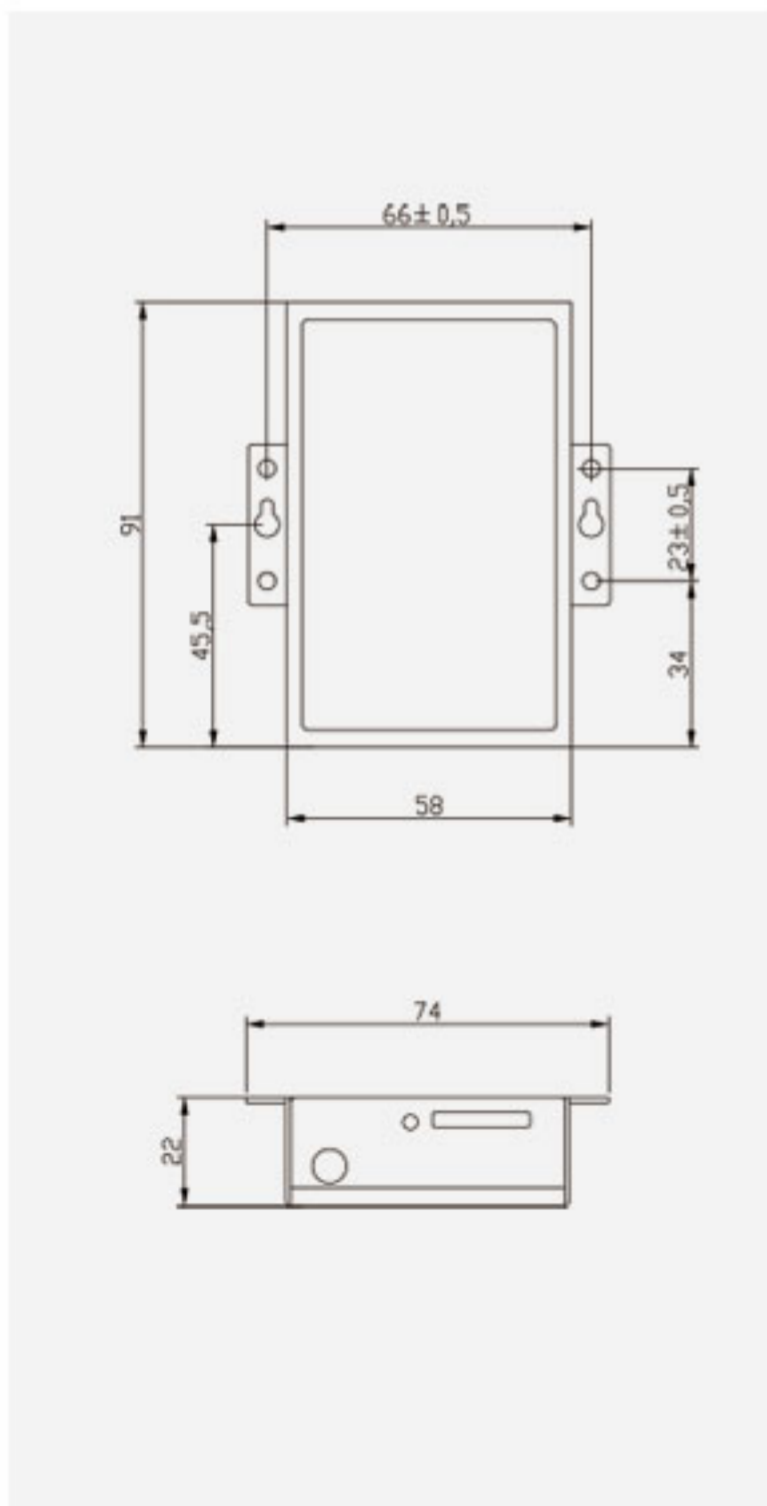# BMD100

### Models : BMD100-G / BMD100-W / BMD100-LF

**BMD100 industrial IP Modem series** is designed to provide stable and reliable wireless communication and transparent transmission based on 4G/3G/2.5G network for unattended site. With the advantages of rapid networking, flexible expansion, short construction cycle and low cost, it has been widely used in remote data collection, remote device monitoring, remote control, remote alarm and other fields, such as power distribution automation, environmental protection, water conservancy, finance, heat pipe network, oil field and other unmanned applications.
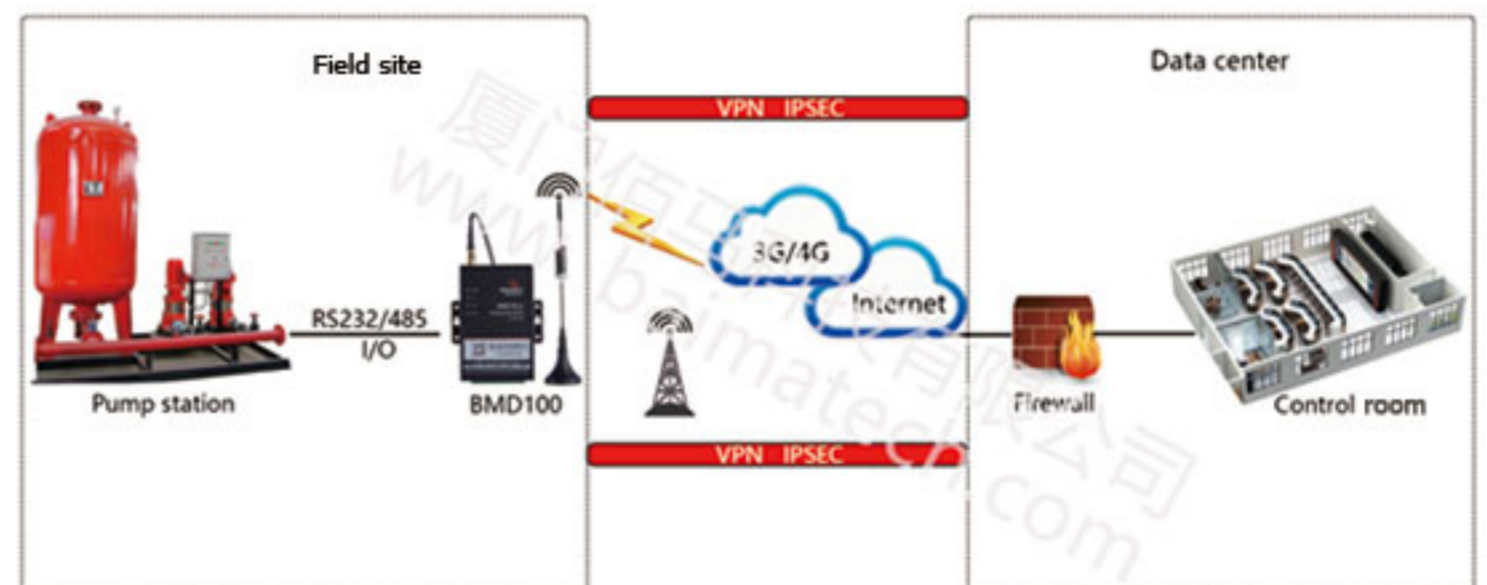
## Features

- RS232, RS485, I/O, ADC(optional) interfaces
- 4G/3G/2.5G network with courier approval
- Industrial grade design, high and low temperature (-35-75℃), 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
- Device management tool, 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<br>Serial type: RS232/RS485<br>Baud rate: 1200~115200 bps<br>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<br>Data format: 10 x AD<br>Power input: 4-20mA  current signal<br>Voltage input: 0-5V voltage signal (optional) |
| | I/O | X 3 | Application mode: input or output I/O<br>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 current | DC 5V -- 35V<br><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 features | Installation | Wall mounted | |
| | Dimensions | 91x58.5x22mm (excluding antenna and mounting) | |
| | Weight | 208g | |

# Ordering

| Model | Network | Cellular frequencies |
|-------|---------|----------------------|
| BMD100-G | GPRS | GSM850/900/1800/1900MHz<br>GSM PHASE2/2+<br>GPRS CLASS 10, CLASS 12 (optional) |
| BMD100-W | HSPA+/WCDMA | UMTS/WCDMA/HSDPA/HSUPA/HSPA+<br>850/900/1900/2100MHz<br>GSM 850/900/1800/1900MHz<br>GPRS/EDGE CLASS 12 |
| BMD100-LF | LTE/WCDMA | FDD-LTE 2600/2100/1800/900/800MHz,<br>700/1700/2100MHz (optional)<br>HSPA+/HSDPA/HSUPA/WCDMA/UMTS 900/2100MHz<br>800/850/1900/2100MHz (optional)<br>EDGE/GPRS/GSM 850/900/1800/1900MHz<br>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