

API 协议

全站行情（行情对接使用）：<https://exfinex.com/api/api/summary>

本 API 是基于 Websocket 的 JSON RPC 格式的协议

Websocket 请求地址为：**wss://wss.exfinex.com/wss**

通用请求格式如下：

Request 请求内容

- method: method, String 请求方法
- params: parameters, Array 参数成员
- id: Request id, Integer 请求 ID
- 示例：{"id":1,"method":"price.query","params":["BTCUSDT"]}

Response 响应内容

- result: Json object, null for failure NULL 类型表示失败
 - error: Json object, null for success, non-null for failure NULL 表示成功，非 NULL 表示产生错误
1. code: error code 错误代码
 2. message: error message 信息
- id: Request id, Integer 请求 ID

Notify 主动通知

- method: method, String 方法
- params: parameters, Array 参数
- id: Null

General error code: 常见错误代码

- 1: invalid argument 参数不正确
- 2: internal error 内部错误
- 3: service unavailable 服务不可用
- 4: method not found 方法不存在
- 5: service timeout 服务超时
- 6: require authentication 需要鉴权

System API 系统 API

PING 连接 ping 测试

- method: server.ping
- params: None
- result: "pong"
- example: {"error": null, "result": "pong", "id": 1000}

System time 系统时间

- method: `server.time`
- params: none
- result: timestamp, Integer 时间戳
- example: `{"error": null, "result": 1493285895, "id": 1000}`

ID verification Web 用户鉴权

- method: `server.auth`
- params:
 1. token: String API Key, 通过个人中心获取 key
 2. source: String, source, e.g. "web", 请求来源标志 如 web

Market API 市场相关 API

Market inquiry 市场行情查询

- method: `kline.query`
- params:
 1. market: market name 市场名字
 2. start: start time, Integer 开始时间
 3. end: end time, Integer 结束时间
 4. interval: interval, Integer 数据间隔

- result:

```
"result": [  
  [  
    1492358400, time  
    "7000.00", open  
    "8000.0", close  
    "8100.00", highest  
    "6800.00", lowest  
    "1000.00" volume  
    "123456.00" amount  
    "BTCCNY" market name  
  ]  
  ...  
]
```

Market subscription 市场行情订阅

- method: `kline.subscribe`
- params:
 1. market
 2. interval

Market notification 市场行情变动通知

- method: `kline.update`

- params:

```
[
  [
    1492358400, time
    "7000.00", open
    "8000.0", close
    "8100.00", highest
    "6800.00", lowest
    "1000.00" volume
    "123456.00" amount
    "BTCCNY" market name
  ]
  ...
]
```

Cancel subscription 取消行情订阅

- method: `kline.unsubscribe`
- params: none

Price API 价格相关 API

Acquire latest price 获取最新价格

- method: `price.query`
- params:

1. market: String, market name 市场名称

- result: String, price

Latest price subscription 最新市场价格订阅

- method: price.subscribe
- params: market list

Latest market notification 市场最新价格通知

- method: price.update
- params:

1. market: String

2. price: String

Cancel subscription 取消价格订阅

- method: price.unsubscribe
- params: none

Market status API 市场状态相关 API

Acquire market status 获取交易市场状态

- method: state.query
- params:

1. market: market
 2. period: cycle period, Integer, e.g. 86400 for last 24 hours 周期间隔
- result:

```
{  
  
  "open": open price  
  
  "last": latest price  
  
  "high": highest price  
  
  "low": lowest price  
  
  "deal": amount  
  
  "volume": volume  
  
}
```

Market 24H status subscription 24 小时市场状态订阅

- method: state.subscribe
- params: market list

Market 24H status notification 24 小时市场状态变动通知

- method: state.update
- params:
 1. market:
 2. result: same as query

Cancel subscription 取消订阅

- method: state.unsubscribe
- params: none

Market status in Today API 今日市场状态相关 API

Acquire Market today status 获取今日市场状态

- method: today.query
- params:

1. market: market

- result:

```
{  
  "open": Today open price  
  "last": Today latest price  
  "high": Today highest price  
  "low": Today lowest price  
  "deal": 24H amount  
  "volume": 24H volume  
}
```

Market today status subscription 今日市场状态订阅

- method: today.subscribe
- params: market list

Market Today status notification 今日市场状态变动通知

- method: `today.update`
- params:
 1. market:
 2. result: same as query

Cancel subscription 去掉订阅

- method: `today.unsubscribe`
- params: none

Deal API 交易 API

Acquire latest executed list 获取市场最近成交订单

- method: `deals.query`
- params:
 1. market: market
 2. limit: amount limit
 3. last_id: largest ID of last returned result

Latest order list subscription 最近市场成交订单订阅

- method: `deals.subscribe`

- params: market list

Latest order list update 最近市场成交订单更新通知

- method: deals.update
- params:

1. market name
2. order list

Cancel subscription 取消订阅

- method: deals.unsubscribe
- params: none

Depth API 市场深度相关 API

Acquire depth 获取市场深度

- method: depth.query
 - params:
1. market: market name
 2. limit: amount limit, Integer
 3. interval: interval, String, e.g. "1" for 1 unit interval, "0" for no interval

```
"result": {
```

```
"asks": [  
  [  
    "8000.00",  
    "9.6250"  
  ]  
],  
"bids": [  
  [  
    "7000.00",  
    "0.1000"  
  ]  
]  
}
```

Depth subscription 市场深度变动订阅

- method: depth.subscribe
- params:
 1. market
 2. limit
 3. interval

Depth notification 市场深度变动通知

- method: depth.update

- params:
 1. clean: Boolean, true: complete result, false: last returned updated result
 2. Same as depth.query, only return what's different from last result, asks
或 bids may not exist. amount == 0 for delete
 3. market name

Cancel subscription 取消订阅

- method: depth.unsubscribe
- params: none

Order API (Authentication required before connection)

下单交易 **API** (调用前需进行用户身份鉴权操作)

Unexecuted order inquiry 未成交的订单查询

- method: order.query
- params:
 1. market: market name, String
 2. offset: offset, Integer
 3. limit: limit, Integer
- result: see HTTP protocol

Executed order inquiry 已成交订单查询

- method: `order.history`
- params:
 1. market: market name, String
 2. start_time: start time, 0 for unlimited, Integer
 3. end_time: end time, 0 for unlimited, Integer
 4. offset: offset, Integer
 5. limit: limit, Integer
 6. side: side, 0 for unlimited, 1 for sell, 2 for buy 1 表示卖 2 表示买

Order subscription 订单状态订阅

- method: `order.subscribe`
- params: market list

Order notification 订单状态变动通知

- method: `order.update`
- params:
 1. event: event type, Integer, 1: PUT, 2: UPDATE, 3: FINISH
 2. order: order detail, Object, see HTTP protocol

Cancel subscription 取消订阅

- method: `order.unsubscribe`
- params: none

Asset API (Authentication required before connection)

币种 API (调用前需进行用户身份鉴权操作)

Asset inquiry 币种查询

- method: `asset.query`
- params: asset list, null for inquire all 币种余额, NULL 表示查询所有
- result:

```
{"BTC": {"available": "1.10000000", "freeze": "9.90000000"}}
```

Asset history 币种交易历史

- method: `asset.history`
- params:
 1. asset: asset name, which can be null
 2. business: business, which can be null, use ',' to separate types
 3. start_time: start time, 0 for unlimited, Integer
 4. end_time: end time, 0 for unlimited, Integer
 5. offset: offset, Integer
 6. limit: amount limit, Integer

Asset subscription 币种余额变动订阅

- method: asset.subscribe
- params: asset list

Asset notification 币种余额变动通知

- method: asset.update
- params:

```
[{"BTC": {"available": "1.10000000", "freeze": "9.90000000"}, "CNY": {}}]
```

Cancel subscription 取消订阅

- method: asset.unsubscribe
- params: none