**API 协议**



全站行情（行情对接使用）：[https://ex2.kinlink.cn/api/api/summary](https://exfinex.com/api/api/summary)

* API 是基于 Websocket 的 JSON RPC 格式的协议

Websocket 请求地址为：**wss://wss.kinlink.cn/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