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# **python-quine Documentation**

***Release 0.2.0***

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**Mar 07, 2018**



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This is an unofficial Python wrapper for the [Quoinex](#) and [Qryptos](#) exchanges REST API v2. I am in no way affiliated with Quoine, Quoinex or Qryptos, use at your own risk.

**PyPi** <https://pypi.python.org/pypi/python-quoine>

**Source code** <https://github.com/sammchardy/python-quoine>

**Documentation** <https://python-quoine.readthedocs.io/en/latest/>



# CHAPTER 1

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## Features

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- Implementation of all REST endpoints.
- Simple handling of authentication
- Response exception handling
- Simple market and limit buy functions
- Margin orders for Quoinex





## CHAPTER 2

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### TODO

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- Websocket implementation



## CHAPTER 3

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### Quick Start

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Register an account with [Quoinex](#) or [Qryptos](#).

Generate an API Key and assign relevant permissions.

```
pip install python-quoine
```

```
from quoine.client import Quoinex
client = Quoinex(api_key, api_secret)

# get products
products = client.get_products()

# get market depth
depth = client.get_order_book(product_id=products[0]['id'])

# place market buy order
order = client.create_market_buy(
    product_id=products[0]['id'],
    quantity='100',
    price_range='0.01')

# get list of filled orders
filled_orders = client.get_orders(status=client.STATUS_FILLED)
```

For more [check out the documentation](#).



## CHAPTER 4

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Donate

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If this library helped you out feel free to donate.

- ETH: 0xD7a7fDdCfA687073d7cC93E9E51829a727f9fE70
- NEO: AVJB4ZgN7VgSUtArCt94y7ZYT6d5NDfpBo
- LTC: LPC5vw9ajR1YndE1hYVeo3kJ9LdHjcRCUZ
- BTC: 1Dknp6L6oRZrHDECRedihPzx2sSfmvEBys



If you use [Binance](#) check out my [python-binance](#) library.

If you use [Kucoin](#) check out my [python-kucoin](#) library.

If you use [Allcoin](#) check out my [python-allucoin](#) library.

If you use [IDEX](#) check out my [python-idex](#) library.

If you use [BigONE](#) check out my [python-bigone](#) library.

## 5.1 Contents

### 5.1.1 Getting Started

#### Installation

`python-quoine` is available on [PYPI](#). Install with `pip`:

```
pip install python-quoine
```

#### Register on Quoinex

Firstly register an account with [Quoinex](#) or [Qryptos](#).

#### Generate an API Key

To use signed account methods you are required to [create an API Key](#).

Note Qryptos and Quoinex have different API Keys.

## Initialise the client

Pass your API Token Id and Secret

Import the client you want to use, the methods available are the same.

```
from quoine.client import Quoinex, Qryptos
quoinex_client = Quoinex(quoinex_api_token_id, quoinex_api_secret)

qryptos_client = Qryptos(qryptos_api_token_id, qryptos_api_secret)

# optionally pass a language parameter
# ie en, en-us
qryptos_client = Qryptos(api_token_id, api_secret, language='zh')

# optionally pass a vendor id if applicable
qryptos_client = Qryptos(api_token_id, api_secret, vendor_id='vendor_id')
```

## API Rate Limit

API users should not make more than 300 requests per 5 minute.

Requests that go beyond the limit will return with a 429 status

## Pagination

Some API requesting lists will be paginated with the following format:

```
{
  "models": [ "<json objects>" ],
  "current_page": "<current page>",
  "total_pages": "<number of pages>"
}
```

The default number of items returned is 20. To get more, you can specify parameter *limit*. Note that the maximum number of items that can be returned at a time is 1000

To get the next page use the *page* parameter.

### 5.1.2 Constants

Quoine defines constants for Order Types, Order Side and Order Status. These are accessible from the Quoinex or Qryptos classes.

```
SIDE_BUY = 'buy'
SIDE_SELL = 'sell'

STATUS_FILLED = 'filled'
STATUS_LIVE = 'live'
STATUS_PARTIAL = 'partially_filled'
STATUS_CANCELLED = 'cancelled'

ORDER_TYPE_LIMIT = 'limit'
ORDER_TYPE_MARKET = 'market'
ORDER_TYPE_MARKET_RANGE = 'market_with_range'
```



Use in your code like below.

```
from quine.client import Quoinex

order_type = Quoinex.ORDER_TYPE_LIMIT
order_side = Quoinex.SIDE_BUY
```

### 5.1.3 Products Endpoints

**class** `quine.client.Quoinex` (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**get\_order\_book** (*product\_id*, *full=False*)

Get order book for a product

<https://developers.quine.com/#get-order-book>

**Parameters**

- **product\_id** (*int*) – required
- **full** (*bool*) – default False, optional

```
order_book = client.get_order_book(1, full=False)
```

**Returns** API response

```
{
  "buy_price_levels": [
    [
      "416.23000",    # price
      "1.75000"      # amount
    ],
    #...
  ],
  "sell_price_levels": [
    [
      "416.47000",    # price
      "0.28675"      # amount
    ],
    #...
  ]
}
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_product** (*product\_id*)

Get product details

<https://developers.quine.com/#get-a-product>

**Parameters** **product\_id** (*int*) – required

```
product = client.get_product(1)
```

**Returns** list - List of product dictionaries

```
{
  "id": 5,
  "product_type": "CurrencyPair",
  "code": "CASH",
  "name": "CASH Trading",
  "market_ask": "48203.05",
  "market_bid": "48188.15",
  "indicator": -1,
  "currency": "JPY",
  "currency_pair_code": "BTCJPY",
  "symbol": "¥",
  "fiat_minimum_withdraw": "1500.0",
  "pusher_channel": "product_cash_btcjpy_5",
  "taker_fee": "0.0",
  "maker_fee": "0.0",
  "low_market_bid": "47630.99",
  "high_market_ask": "48396.71",
  "volume_24h": "2915.62736652",
  "last_price_24h": "48217.2",
  "last_traded_price": "48203.05",
  "last_traded_quantity": "1.0",
  "quoted_currency": "JPY",
  "base_currency": "BTC",
  "exchange_rate": "0.009398151671149725"
}
```

**Raises** QuoineResponseException, QuoineAPIException

#### **get\_products()**

Get the list of all available products

<https://developers.quotine.com/#products>

```
products = client.get_products()
```

**Returns** list - List of product dictionaries

```
[
  {
    "id": 5,
    "product_type": "CurrencyPair",
    "code": "CASH",
    "name": "CASH Trading",
    "market_ask": "48203.05",
    "market_bid": "48188.15",
    "indicator": -1,
    "currency": "JPY",
    "currency_pair_code": "BTCJPY",
    "symbol": "¥",
    "fiat_minimum_withdraw": "1500.0",
    "pusher_channel": "product_cash_btcjpy_5",
    "taker_fee": "0.0",
    "maker_fee": "0.0",
    "low_market_bid": "47630.99",
    "high_market_ask": "48396.71",
    "volume_24h": "2915.62736651999999999998",
```

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```

    "last_price_24h": "48217.2",
    "last_traded_price": "48203.05",
    "last_traded_quantity": "1.0",
    "quoted_currency": "JPY",
    "base_currency": "BTC",
    "exchange_rate": "0.009398151671149725"
  },
  #...
]

```

**Raises** QuoineResponseException, QuoineAPIException

## 5.1.4 Executions Endpoints

**class** quoine.client.**Quoinex** (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**get\_executions** (*product\_id*, *limit=None*, *page=None*)

Get a list of recent executions from a product (Executions are sorted in DESCENDING order - Latest first)

<https://developers.quoine.com/#executions>

### Parameters

- **product\_id** (*int*) – required
- **limit** (*int*) – How many executions should be returned. Must be <= 1000. Default is 20
- **page** (*int*) – From what page the executions should be returned, e.g if limit=20 and page=2, the response would start from the 21st execution. Default is 1

```

executions = client.get_executions(
    product_id=1,
    limit=200)

```

**Returns** API response

```

{
  "models": [
    {
      "id": 1011880,
      "quantity": "6.118954",
      "price": "409.78",
      "taker_side": "sell",
      "created_at": 1457370745
    },
    {
      "id": 1011791,
      "quantity": "1.15",
      "price": "409.12",
      "taker_side": "sell",
      "created_at": 1457365585
    }
  ],
}

```

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```
"current_page": 2,  
"total_pages": 1686  
}
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_executions\_since\_time** (*product\_id, timestamp, limit=None*)

Get a list of executions after a particular time (Executions are sorted in ASCENDING order)

Note this call has an optional limit parameter but no paging.

<https://developers.quotine.com/#get-executions-by-timestamp>

#### Parameters

- **product\_id** (*int*) – required
- **timestamp** (*int (Unix timestamps in seconds)*) – Only show executions at or after this timestamp
- **limit** (*int*) – How many executions should be returned. Must be <= 1000. Default is 20

```
import time  
  
since = int(time.time())  
executions = client.get_executions_since_time(  
    product_id=1,  
    timestamp=since,  
    limit=50)
```

**Returns** API response

```
[  
  {  
    "id": 960598,  
    "quantity": "5.6",  
    "price": "431.89",  
    "taker_side": "buy",  
    "created_at": 1456705487  
  },  
  {  
    "id": 960603,  
    "quantity": "0.06",  
    "price": "431.74",  
    "taker_side": "buy",  
    "created_at": 1456705564  
  }  
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_my\_executions** (*product\_id, limit=None, page=None*)

Get list of your executions by product with pagination

<https://developers.quotine.com/#get-your-executions>

#### Parameters

- **product\_id** (*int*) – required
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

```
executions = client.get_my_executions(product_id=1)
```

**Returns** API response

```
{
  "models": [
    {
      "id": 1001232,
      "quantity": "0.37153179",
      "price": "390.0",
      "taker_side": "sell",
      "my_side": "sell",
      "created_at": 1457193798
    }
  ],
  "current_page": 1,
  "total_pages": 2
}
```

**Raises** QuoineResponseException, QuoineAPIException

## 5.1.5 Interest Rates Endpoints

**class** quoine.client.**Quoinex** (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**get\_interest\_rate\_ladder** (*currency*)

Get a list of executions after a particular time (Executions are sorted in ASCENDING order)

<https://developers.quoise.com/#interest-rates>

**Parameters** **currency** (*string*) – required (i.e. USD)

```
ladder = client.get_interest_rate_ladder(currency='USD')
```

**Returns** API response

```
{
  "bids": [
    [
      "0.00020",
      "23617.81698"
    ],
    [
      "0.00040",
      "50050.42000"
    ],
    [
      "0.00050",
```

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```
        "100000.00000"  
    ],  
    "asks": [  
    ]  
}
```

**Raises** QuoineResponseException, QuoineAPIException

### 5.1.6 Order Endpoints

**class** quoine.client.**Quoinex**(*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**cancel\_order**(*order\_id*)

Cancel an order

<https://developers.quoine.com/#cancel-an-order>

**Parameters** **order\_id**(*int*) – required

```
result = client.cancel_order(order_id=2157479)
```

**Returns** API response

```
{  
    "id": 2157474,  
    "order_type": "limit",  
    "quantity": "0.01",  
    "disc_quantity": "0.0",  
    "iceberg_total_quantity": "0.0",  
    "side": "sell",  
    "filled_quantity": "0.0",  
    "price": "500.0",  
    "created_at": 1462123639,  
    "updated_at": 1462123639,  
    "status": "cancelled",  
    "leverage_level": 1,  
    "source_exchange": "QUOINE",  
    "product_id": 1,  
    "product_code": "CASH",  
    "funding_currency": "USD",  
    "currency_pair_code": "BTCUSD"  
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_limit\_buy**(*product\_id*, *quantity*, *price*)

Create a limit spot buy order

<https://developers.quoine.com/#orders>

**Parameters**

- **product\_id**(*int*) – required

- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency

```
order = client.create_limit_buy(
    product_id=1,
    quantity='100',
    price='0.00001')
```

**Returns** API response

```
{
    "id": 2157474,
    "order_type": "limit",
    "quantity": "0.01",
    "disc_quantity": "0.0",
    "iceberg_total_quantity": "0.0",
    "side": "sell",
    "filled_quantity": "0.0",
    "price": "500.0",
    "created_at": 1462123639,
    "updated_at": 1462123639,
    "status": "live",
    "leverage_level": 1,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD",
    "order_fee": "0.0",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_limit\_sell** (*product\_id*, *quantity*, *price*)

Create a limit spot sell order

<https://developers.quoine.com/#orders>

**Parameters**

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency

```
order = client.create_limit_sell(
    product_id=1,
    quantity='100',
    price='0.00001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_margin\_order**(*order\_type*, *product\_id*, *side*, *quantity*, *price*, *leverage\_level*=2,  
*price\_range*=None, *funding\_currency*=None, *order\_direction*=None)

Create a leveraged margin order of type limit, market, or market with range

Only available on Quoinex

To trade at any specific leverage level, you will first need to go to margin trading dashboard, click on that leverage level and then confirm to get authorized. Or you can do it using the `update_leverage_level` function

<https://developers.quoine.com/#orders>

#### Parameters

- **order\_type** (*string*) – required - limit, market or market\_with\_range
- **product\_id** (*int*) – required
- **side** (*string*) – required - buy or sell
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency
- **leverage\_level** (*int*) – optional - 2, 4, 5, 10 or 25 (default 2)
- **price\_range** (*string*) – optional - For order\_type of market\_with\_range only, slip-page of the order.
- **funding\_currency** (*string*) – optional - Currency used to fund the trade with. Default is quoted currency

```
order = client.create_order(
    type=Quoinex.ORDER_TYPE_LIMIT
    product_id=1,
```

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```
side=Quoinex.SIDE_BUY,
quantity='100',
price='0.00001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException**create\_market\_buy** (*product\_id, quantity, price\_range=None*)

Create a market spot buy order

<https://developers.quoine.com/#orders>**Parameters**

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price\_range** (*string*) – optional - slippage of the order.

```
order = client.create_market_buy(
    product_id=1,
    quantity='100')

# place a market buy with range for slippage
order = client.create_market_buy(
    product_id=1,
    quantity='100',
    price_range='0.001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_market\_sell** (*product\_id*, *quantity*, *price\_range=None*)

Create a market spot sell order

<https://developers.quoine.com/#orders>

#### Parameters

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price\_range** (*string*) – optional - slippage of the order.

```
order = client.create_market_sell(
    product_id=1,
    quantity='100')

# place a market sell with range for slippage
order = client.create_market_sell(
    product_id=1,
    quantity='100',
    price_range='0.001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
```

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```

    "filled_quantity": "0.0",
    "price": "500.0",
    "created_at": 1462123639,
    "updated_at": 1462123639,
    "status": "live",
    "leverage_level": 1,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD",
    "order_fee": "0.0",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
}

```

**Raises** QuoineResponseException, QuoineAPIException

**create\_order** (*order\_type*, *product\_id*, *side*, *quantity*, *price=None*, *price\_range=None*)

Create a limit, market or market with range spot order. This function gives full flexibility for spot orders.

<https://developers.quoine.com/#orders>

#### Parameters

- **order\_type** (*string*) – required - limit, market or market\_with\_range
- **product\_id** (*int*) – required
- **side** (*string*) – required - buy or sell
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency
- **price\_range** (*string*) – optional For order\_type of market\_with\_range only, slip-page of the order.

```

order = client.create_order(
    type=Quoinex.ORDER_TYPE_LIMIT
    product_id=1,
    side=Quoinex.SIDE_BUY,
    quantity='100',
    price='0.00001')

```

**Returns** API response

```

{
    "id": 2157474,
    "order_type": "limit",
    "quantity": "0.01",
    "disc_quantity": "0.0",
    "iceberg_total_quantity": "0.0",
    "side": "sell",
    "filled_quantity": "0.0",
    "price": "500.0",
    "created_at": 1462123639,

```

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```

    "updated_at": 1462123639,
    "status": "live",
    "leverage_level": 1,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD",
    "order_fee": "0.0",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
}

```

**Raises** QuoineResponseException, QuoineAPIException**get\_order** (*order\_id*)

Get an order

<https://developers.quoine.com/#get-an-order>**Parameters** *order\_id* (*int*) – required

```
order = client.get_order(order_id=2157479)
```

**Returns** API response

```

{
    "id": 2157479,
    "order_type": "limit",
    "quantity": "0.01",
    "disc_quantity": "0.0",
    "iceberg_total_quantity": "0.0",
    "side": "sell",
    "filled_quantity": "0.01",
    "price": "500.0",
    "created_at": 1462123639,
    "updated_at": 1462123639,
    "status": "filled",
    "leverage_level": 2,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD",
    "order_fee": "0.0",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
    "executions": [
        {
            "id": 4566133,
            "quantity": "0.01",
            "price": "500.0",
            "taker_side": "buy",
            "my_side": "sell",

```

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```

        "created_at": 1465396785
    }
]
}

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_order\_trades** (*order\_id*)

Get an orders trades

<https://developers.quotine.com/#get-an-order's-trades>

**Parameters** *order\_id* (*int*) – required

```
trades = client.get_order_trades(order_id=2157479)
```

**Returns** API response

```

[
  {
    "id": 57896,
    "currency_pair_code": "BTCUSD",
    "status": "closed",
    "side": "short",
    "margin_used": "0.83588",
    "open_quantity": "0.01",
    "close_quantity": "0.0",
    "quantity": "0.01",
    "leverage_level": 5,
    "product_code": "CASH",
    "product_id": 1,
    "open_price": "417.65",
    "close_price": "417.0",
    "trader_id": 3020,
    "open_pnl": "0.0",
    "close_pnl": "0.0065",
    "pnl": "0.0065",
    "stop_loss": "0.0",
    "take_profit": "0.0",
    "funding_currency": "USD",
    "created_at": 1456250726,
    "updated_at": 1456251837,
    "close_fee": "0.0",
    "total_interest": "0.02",
    "daily_interest": "0.02"
  }
]

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_orders** (*funding\_currency=None*, *product\_id=None*, *status=None*, *with\_details=False*,  
*limit=None*, *page=None*)

Get a list of orders using filters with pagination

<https://developers.quotine.com/#get-orders>

**Parameters**

- **funding\_currency** (*string*) – optional - filter orders based on funding currency
- **product\_id** (*int*) – optional - filter orders based on product
- **status** (*string*) – optional - filter orders based on status
- **with\_details** (*bool*) – optional - return full order details (attributes between \*) including executions
- **limit** (*int*) – optional - page limit
- **page** (*int*) – optional - page number

```
orders = client.get_orders(product_id=1, limit=10)
```

**Returns** API response

```
{
  "models": [
    {
      "id": 2157474,
      "order_type": "limit",
      "quantity": "0.01",
      "disc_quantity": "0.0",
      "iceberg_total_quantity": "0.0",
      "side": "sell",
      "filled_quantity": "0.0",
      "price": "500.0",
      "created_at": 1462123639,
      "updated_at": 1462123639,
      "status": "live",
      "leverage_level": 1,
      "source_exchange": "QUOINE",
      "product_id": 1,
      "product_code": "CASH",
      "funding_currency": "USD",
      "currency_pair_code": "BTCUSD",
      "unwound_trade_leverage_level": null,
      "order_fee": "0.0",
      "margin_used": "0.0",
      "margin_interest": "0.0",
      "executions": []
    }
  ],
  "current_page": 1,
  "total_pages": 1
}
```

**Raises** QuoineResponseException, QuoineAPIException

**update\_live\_order** (*order\_id*, *quantity=None*, *price=None*)

Update a live order

<https://developers.quoine.com/#edit-a-live-order>

**Parameters**

- **order\_id** (*int*) – required
- **quantity** (*string*) – optional - one or both of quantity or price should be set

- **price** (*string*) – optional - one or both of quantity or price should be set

```
order = client.update_live_order(
    order_id=2157479,
    quantity='101',
    price='0.001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "cancelled",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD"
}
```

**Raises** QuoineResponseException, QuoineAPIException

## 5.1.7 Accounts Endpoints

**class** quoine.client.**Quoinex** (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**create\_fiat\_account** (*currency*)

Create a fiat account for a currency

<https://developers.quotin.com/#create-a-fiat-account>

**Parameters** **currency** (*string*) – required

```
account = client.create_fiat_accounts(currency='USD')
```

**Returns** API response

```
{
  "id": 5595,
  "currency": "USD",
  "currency_symbol": "$",
  "balance": "0.0",
  "pusher_channel": "user_3122_account_usd",
  "lowest_offer_interest_rate": "0.00020",
  "highest_offer_interest_rate": "0.00060",
}
```

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```
"exchange_rate": "1.0",
"currency_type": "fiat",
"margin": "0.0",
"free_margin": "0.0"
}
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_account\_balances()**

Get all account balances

<https://developers.quoine.com/#get-all-account-balances>

```
account = client.get_account_balances()
```

**Returns** API response

```
[
  {
    "currency": "BTC",
    "balance": "0.04925688"
  },
  {
    "currency": "USD",
    "balance": "7.17696"
  },
  {
    "currency": "JPY",
    "balance": "356.01377"
  }
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_crypto\_accounts()**

Get list of crypto accounts

<https://developers.quoine.com/#get-crypto-accounts>

```
accounts = client.get_crypto_accounts()
```

**Returns** API response

```
[
  {
    "id": 4668,
    "balance": "4.99",
    "address": "1F25zWAQ1BAAmppNxLV3KtK6aTNhxNg5Hg",
    "currency": "BTC",
    "currency_symbol": "฿",
    "pusher_channel": "user_3020_account_btc",
    "minimum_withdraw": 0.02,
    "lowest_offer_interest_rate": "0.00049",
    "highest_offer_interest_rate": "0.05000",
  }
]
```

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```

        "currency_type": "crypto"
    }
]

```

**Raises** QuoineResponseException, QuoineAPIException**get\_fiat\_accounts()**

Get list of fiat accounts

<https://developers.quotine.com/#get-fiat-accounts>

```
accounts = client.get_fiat_accounts()
```

**Returns** API response

```

[
    {
        "id": 4695,
        "currency": "USD",
        "currency_symbol": "$",
        "balance": "10000.1773",
        "pusher_channel": "user_3020_account_usd",
        "lowest_offer_interest_rate": "0.00020",
        "highest_offer_interest_rate": "0.00060",
        "exchange_rate": "1.0",
        "currency_type": "fiat",
        "margin": "0.0",
        "free_margin": "10000.1773"
    }
]

```

**Raises** QuoineResponseException, QuoineAPIException

## 5.1.8 Assets Lending Endpoints

**class** `quotine.client.Quoinex`(*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**close\_loan\_bid**(*loan\_bid\_id*)

Close loan bid

<https://developers.quotine.com/#close-loan-bid>**Parameters** `loan_bid_id` (*int*) – loan bid Id**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```

{
    "id": 3580,
    "bidask_type": "limit",
    "quantity": "50.0",
    "currency": "USD",
    "side": "bid",

```

(continues on next page)

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```
"filled_quantity": "0.0",
"status": "closed",
"rate": "0.0007",
"user_id": 3020
}
```

**create\_loan\_bid** (*rate, quantity, currency*)

Create a loan bid

<https://developers.quoise.com/#create-a-loan-bid>**Parameters**

- **rate** (*string*) – daily interest rate, e.g 0.0002 (0.02%), must be <= 0.07%
- **quantity** (*string*) – amount to lend
- **currency** (*string*) – lending currency (all available in the system except JPY)

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 3580,
  "bidask_type": "limit",
  "quantity": "50.0",
  "currency": "USD",
  "side": "bid",
  "filled_quantity": "0.0",
  "status": "live",
  "rate": "0.0002",
  "user_id": 3020
}
```

**get\_loan\_bid** (*currency, limit=None, page=None*)

Get loan bids

<https://developers.quoise.com/#get-loan-bids>**Parameters**

- **currency** (*string*) – lending currency (all available in the system except JPY)
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 3580,
  "bidask_type": "limit",
  "quantity": "50.0",
  "currency": "USD",
  "side": "bid",
  "filled_quantity": "0.0",
  "status": "live",
  "rate": "0.0002",
}
```

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```

    "user_id": 3020
}

```

**get\_loans** (*currency*, *limit=None*, *page=None*)

Get loans

<https://developers.quoine.com/#get-loans>**Parameters**

- **currency** (*string*) – lending currency (all available in the system except JPY)
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```

{
  "models": [
    {
      "id": 144825,
      "quantity": "495.1048",
      "rate": "0.0005",
      "created_at": 1464168246,
      "lender_id": 312,
      "borrower_id": 5712,
      "status": "open",
      "currency": "JPY",
      "fund_reloaned": true
    }
  ],
  "current_page": 1,
  "total_pages": 1
}

```

**update\_loan** (*loan\_id*, *fund\_reloaned=None*)

Update a loan

<https://developers.quoine.com/#update-a-loan>

TODO: work out what else we can update

**Parameters**

- **loan\_id** (*int*) – Loan Id
- **fund\_reloaned** (*bool*) – optional

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```

{
  "id": 144825,
  "quantity": "495.1048",
  "rate": "0.0005",
  "created_at": 1464168246,
  "lender_id": 312,

```

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```
"borrower_id": 5712,  
"status": "open",  
"currency": "JPY",  
"fund_reloaned": false  
}
```

### 5.1.9 Trading Accounts Endpoints

**class** `quoine.client.Quoinex` (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)

**get\_trading\_account** (*account\_id*)

Get a Trading Account

<https://developers.quoise.com/#get-a-trading-account>

**Parameters** `account_id` (*int*) – Trading Account Id

**Returns** API response

**Raises** `QuoineResponseException`, `QuoineAPIException`

```
{  
  "id": 1759,  
  "leverage_level": 10,  
  "max_leverage_level": 10,  
  "pnl": "0.0",  
  "equity": "10000.1773",  
  "margin": "4.2302",  
  "free_margin": "9995.9471",  
  "trader_id": 4807,  
  "status": "active",  
  "product_code": "CASH",  
  "currency_pair_code": "BTCUSD",  
  "position": "0.1",  
  "balance": "10000.1773",  
  "created_at": 1421992165,  
  "updated_at": 1457242996,  
  "pusher_channel": "trading_account_1759",  
  "margin_percent": "0.1",  
  "product_id": 1,  
  "funding_currency": "USD"  
}
```

**get\_trading\_accounts** ()

Get Trading Accounts

<https://developers.quoise.com/#get-trading-accounts>

**Returns** API response

**Raises** `QuoineResponseException`, `QuoineAPIException`

```
[  
  {  
    "id": 1759,  
    "leverage_level": 10,
```

(continues on next page)

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```

        "max_leverage_level": 10,
        "pnl": "0.0",
        "equity": "10000.1773",
        "margin": "4.2302",
        "free_margin": "9995.9471",
        "trader_id": 4807,
        "status": "active",
        "product_code": "CASH",
        "currency_pair_code": "BTCUSD",
        "position": "0.1",
        "balance": "10000.1773",
        "created_at": 1421992165,
        "updated_at": 1457242996,
        "pusher_channel": "trading_account_1759",
        "margin_percent": "0.1",
        "product_id": 1,
        "funding_currency": "USD",
        "base_open_price": 0,
        "long_summary": {
            "pnl": "0.0",
            "position": "0.0",
            "base_open_price": "0.0"
        },
        "short_summary": {
            "pnl": "0.0",
            "position": "0.0",
            "base_open_price": "0.0"
        }
    },
    #...
]

```

**update\_leverage\_level** (*account\_id*, *leverage\_level*)

Update Trading account leverage level

Only available on Quoinex

<https://developers.quoise.com/#update-leverage-level>**Parameters**

- **account\_id** (*int*) – Trading Account Id
- **leverage\_level** (*int*) – New leverage level

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```

{
    "id": 1759,
    "leverage_level": 25,
    "max_leverage_level": 25,
    "pnl": "0.0",
    "equity": "10000.1773",
    "margin": "4.2302",
    "free_margin": "9995.9471",
    "trader_id": 4807,
    "status": "active",

```

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```

    "product_code": "CASH",
    "currency_pair_code": "BTCUSD",
    "position": "0.1",
    "balance": "10000.1773",
    "created_at": 1421992165,
    "updated_at": 1457242996,
    "pusher_channel": "trading_account_1759",
    "margin_percent": "0.1",
    "product_id": 1,
    "funding_currency": "USD"
}

```

### 5.1.10 Trades Endpoints

**class** quoine.client.**Quoinex** (*api\_token\_id, api\_secret, vendor\_id=None, language=None*)

**close\_all\_trades** (*side=None*)

Close all trades

<https://developers.quoine.com/#close-all-trade>

**Parameters** *side* (*string*) – optional - Close all trades of this side. Close trades of both side if left blank

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```

[
  {
    "id": 57896,
    "currency_pair_code": "BTCUSD",
    "status": "closed",
    "side": "short",
    "margin_used": "0.83588",
    "open_quantity": "0.01",
    "close_quantity": "0.0",
    "quantity": "0.01",
    "leverage_level": 5,
    "product_code": "CASH",
    "product_id": 1,
    "open_price": "417.65",
    "close_price": "417.0",
    "trader_id": 3020,
    "open_pnl": "0.0",
    "close_pnl": "0.0065",
    "pnl": "0.0065",
    "stop_loss": "0.0",
    "take_profit": "0.0",
    "funding_currency": "USD",
    "created_at": 1456250726,
    "updated_at": 1456251837,
    "close_fee": "0.0",
    "total_interest": "0.02",
    "daily_interest": "0.02"
  }
]

```

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```
}
]
```

**close\_trade** (*trade\_id*, *closed\_quantity*=None)

Close a trade

<https://developers.quoise.com/#close-a-trade>

#### Parameters

- **trade\_id** (*int*) – Trade Id
- **closed\_quantity** (*string*) – optional - The quantity you want to close

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 57896,
  "currency_pair_code": "BTCUSD",
  "status": "closed",
  "side": "short",
  "margin_used": "0.83588",
  "open_quantity": "0.01",
  "close_quantity": "0.0",
  "quantity": "0.01",
  "leverage_level": 5,
  "product_code": "CASH",
  "product_id": 1,
  "open_price": "417.65",
  "close_price": "417.0",
  "trader_id": 3020,
  "open_pnl": "0.0",
  "close_pnl": "0.0065",
  "pnl": "0.0065",
  "stop_loss": "0.0",
  "take_profit": "0.0",
  "funding_currency": "USD",
  "created_at": 1456250726,
  "updated_at": 1456251837,
  "close_fee": "0.0",
  "total_interest": "0.02",
  "daily_interest": "0.02"
}
```

**get\_trade\_loans** (*trade\_id*)

Get a trade's loans

<https://developers.quoise.com/#get-a-trade's-loans>

**Parameters** **trade\_id** (*int*) – Trade Id

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
[
  {
    "id": 103520,
```

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```

        "quantity": "42.302",
        "rate": "0.0002",
        "created_at": 1461998432,
        "lender_id": 100,
        "borrower_id": 3020,
        "status": "open",
        "currency": "USD",
        "fund_reloaned": true
    }
]

```

**get\_trades** (*funding\_currency=None, status=None, limit=None, page=None*)  
Get Trades

<https://developers.quoine.com/#get-trades>

#### Parameters

- **funding\_currency** (*string*) – optional - get trades of a particular funding currency
- **status** (*string*) – optional - open or closed
- **limit** (*int*) – Limit trades per request
- **page** (*int*) – Page

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```

{
    "models": [
        {
            "id": 57896,
            "currency_pair_code": "BTCUSD",
            "status": "open",
            "side": "short",
            "margin_used": "0.83588",
            "open_quantity": "0.01",
            "close_quantity": "0.0",
            "quantity": "0.01",
            "leverage_level": 5,
            "product_code": "CASH",
            "product_id": 1,
            "open_price": "417.65",
            "close_price": "417.0",
            "trader_id": 3020,
            "open_pnl": "0.0",
            "close_pnl": "0.0",
            "pnl": "0.0065",
            "stop_loss": "0.0",
            "take_profit": "0.0",
            "funding_currency": "USD",
            "created_at": 1456250726,
            "updated_at": 1456251837,
            "close_fee": "0.0",
            "total_interest": "0.02",
            "daily_interest": "0.02"
        },
    ],
}

```

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```

        #...
    ],
    "current_page": 1,
    "total_pages": 1
}

```

**update\_trade** (*trade\_id*, *stop\_loss*, *take\_profit*)

Update a trade

<https://developers.quoine.com/#update-a-trade>

#### Parameters

- **trade\_id** (*int*) – Trade Id
- **stop\_loss** (*string*) – Stop Loss price
- **take\_profit** (*string*) – Take Profit price

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```

{
  "id": 57897,
  "currency_pair_code": "BTCUSD",
  "status": "open",
  "side": "short",
  "margin_used": "0.83588",
  "open_quantity": "0.01",
  "close_quantity": "0.0",
  "quantity": "0.01",
  "leverage_level": 5,
  "product_code": "CASH",
  "product_id": 1,
  "open_price": "417.65",
  "close_price": "0",
  "trader_id": 3020,
  "open_pnl": "0.0",
  "close_pnl": "0.0065",
  "pnl": "0.0065",
  "stop_loss": "300.0",
  "take_profit": "600.0",
  "funding_currency": "USD",
  "created_at": 1456250726,
  "updated_at": 1456251837,
  "close_fee": "0.0",
  "total_interest": "0.02",
  "daily_interest": "0.02"
}

```

## 5.1.11 Exceptions

### QuoineResponseException

Raised if a non JSON response is returned

## QuoineAPIException

On an API call error a `quoine.exceptions.QuoineAPIException` will be raised.

The exception provides access to the

- *status\_code* - response status code
- *response* - response object
- *messages* - Quoine error message dictionary
- *request* - request object if available

```
try:
    client.get_products()
except QuoineAPIException as e:
    print(e.status_code)
    print(e.messages)
```

## 5.1.12 Changelog

### v0.1.3 - 2017-01-29

#### Fixed

- Pass GET params properly

### v0.1.2 - 2017-12-30

#### Fixed

- Fix to call signed functions properly

### v0.1.1 - 2017-11-11

#### Added

- Quoinex margin order function
- Added main asset function

### v0.1.0 - 2017-11-07

#### Added

- Qryptos and Quoinex client interface
- Coverage for all main endpoints
- Constants for order type, side and status
- Full documentation

### 5.1.13 Quoine API

#### client module

**class** quoine.client.Quoine(*api\_token\_id, api\_secret, vendor\_id=None, language=None*)

Bases: object

API\_URL = 'https://api.quotine.com'

API\_VERSION = '2'

SIDE\_BUY = 'buy'

SIDE\_SELL = 'sell'

STATUS\_FILLED = 'filled'

STATUS\_LIVE = 'live'

STATUS\_PARTIAL = 'partially\_filled'

STATUS\_CANCELLED = 'cancelled'

ORDER\_TYPE\_LIMIT = 'limit'

ORDER\_TYPE\_MARKET = 'market'

ORDER\_TYPE\_MARKET\_RANGE = 'market\_with\_range'

LEVERAGE\_LEVEL\_2 = 2

LEVERAGE\_LEVEL\_4 = 4

LEVERAGE\_LEVEL\_5 = 5

LEVERAGE\_LEVEL\_10 = 10

LEVERAGE\_LEVEL\_25 = 25

MARGIN\_ORDER\_DIRECTION\_ONE = 'one\_direction'

MARGIN\_ORDER\_DIRECTION\_TWO = 'two\_direction'

MARGIN\_ORDER\_DIRECTION\_NET = 'netout'

**\_\_init\_\_**(*api\_token\_id, api\_secret, vendor\_id=None, language=None*)

Quoine API Client constructor

#### Parameters

- **api\_token\_id** (*str.*) – Api Token Id
- **api\_secret** (*str.*) – Api Secret
- **vendor\_id** (*str.*) – Vendor ID optional
- **language** (*str.*) – Langague optional

VENDOR\_ID = None

LANGUAGE = 'en'

**get\_products**()

Get the list of all available products

<https://developers.quotine.com/#products>

```
products = client.get_products()
```

**Returns** list - List of product dictionaries

```
[
    {
        "id": 5,
        "product_type": "CurrencyPair",
        "code": "CASH",
        "name": "CASH Trading",
        "market_ask": "48203.05",
        "market_bid": "48188.15",
        "indicator": -1,
        "currency": "JPY",
        "currency_pair_code": "BTCJPY",
        "symbol": "¥",
        "fiat_minimum_withdraw": "1500.0",
        "pusher_channel": "product_cash_btcjpy_5",
        "taker_fee": "0.0",
        "maker_fee": "0.0",
        "low_market_bid": "47630.99",
        "high_market_ask": "48396.71",
        "volume_24h": "2915.62736651999999999998",
        "last_price_24h": "48217.2",
        "last_traded_price": "48203.05",
        "last_traded_quantity": "1.0",
        "quoted_currency": "JPY",
        "base_currency": "BTC",
        "exchange_rate": "0.009398151671149725"
    },
    #...
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_product** (*product\_id*)

Get product details

<https://developers.quotine.com/#get-a-product>

**Parameters** **product\_id** (*int*) – required

```
product = client.get_product(1)
```

**Returns** list - List of product dictionaries

```
{
    "id": 5,
    "product_type": "CurrencyPair",
    "code": "CASH",
    "name": "CASH Trading",
    "market_ask": "48203.05",
    "market_bid": "48188.15",
    "indicator": -1,
    "currency": "JPY",
```

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```

    "currency_pair_code": "BTCJPY",
    "symbol": "¥",
    "fiat_minimum_withdraw": "1500.0",
    "pusher_channel": "product_cash_btcjpy_5",
    "taker_fee": "0.0",
    "maker_fee": "0.0",
    "low_market_bid": "47630.99",
    "high_market_ask": "48396.71",
    "volume_24h": "2915.62736652",
    "last_price_24h": "48217.2",
    "last_traded_price": "48203.05",
    "last_traded_quantity": "1.0",
    "quoted_currency": "JPY",
    "base_currency": "BTC",
    "exchange_rate": "0.009398151671149725"
}

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_order\_book** (*product\_id*, *full=False*)

Get order book for a product

<https://developers.quoise.com/#get-order-book>

**Parameters**

- **product\_id** (*int*) – required
- **full** (*bool*) – default False, optional

```
order_book = client.get_order_book(1, full=False)
```

**Returns** API response

```

{
    "buy_price_levels": [
        [
            "416.23000",    # price
            "1.75000"      # amount
        ],
        #...
    ],
    "sell_price_levels": [
        [
            "416.47000",    # price
            "0.28675"      # amount
        ],
        #...
    ]
}

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_executions** (*product\_id*, *limit=None*, *page=None*)

Get a list of recent executions from a product (Executions are sorted in DESCENDING order - Latest first)

<https://developers.quoise.com/#executions>

#### Parameters

- **product\_id** (*int*) – required
- **limit** (*int*) – How many executions should be returned. Must be  $\leq 1000$ . Default is 20
- **page** (*int*) – From what page the executions should be returned, e.g if limit=20 and page=2, the response would start from the 21st execution. Default is 1

```
executions = client.get_executions(  
    product_id=1,  
    limit=200)
```

#### Returns API response

```
{  
  "models": [  
    {  
      "id": 1011880,  
      "quantity": "6.118954",  
      "price": "409.78",  
      "taker_side": "sell",  
      "created_at": 1457370745  
    },  
    {  
      "id": 1011791,  
      "quantity": "1.15",  
      "price": "409.12",  
      "taker_side": "sell",  
      "created_at": 1457365585  
    }  
  ],  
  "current_page": 2,  
  "total_pages": 1686  
}
```

#### Raises QuoineResponseException, QuoineAPIException

**get\_executions\_since\_time** (*product\_id, timestamp, limit=None*)

Get a list of executions after a particular time (Executions are sorted in ASCENDING order)

Note this call has an optional limit parameter but no paging.

<https://developers.quoise.com/#get-executions-by-timestamp>

#### Parameters

- **product\_id** (*int*) – required
- **timestamp** (*int (Unix timestamps in seconds)*) – Only show executions at or after this timestamp
- **limit** (*int*) – How many executions should be returned. Must be  $\leq 1000$ . Default is 20

```
import time

since = int(time.time())
executions = client.get_executions_since_time(
    product_id=1,
    timestamp=since,
    limit=50)
```

**Returns** API response

```
[
  {
    "id": 960598,
    "quantity": "5.6",
    "price": "431.89",
    "taker_side": "buy",
    "created_at": 1456705487
  },
  {
    "id": 960603,
    "quantity": "0.06",
    "price": "431.74",
    "taker_side": "buy",
    "created_at": 1456705564
  }
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_interest\_rate\_ladder** (*currency*)

Get a list of executions after a particular time (Executions are sorted in ASCENDING order)

<https://developers.quotine.com/#interest-rates>

**Parameters** **currency** (*string*) – required (i.e. USD)

```
ladder = client.get_interest_rate_ladder(currency='USD')
```

**Returns** API response

```
{
  "bids": [
    [
      "0.00020",
      "23617.81698"
    ],
    [
      "0.00040",
      "50050.42000"
    ],
    [
      "0.00050",
      "100000.00000"
    ]
  ],
}
```

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```
"asks": [  
]  
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_order** (*order\_type*, *product\_id*, *side*, *quantity*, *price=None*, *price\_range=None*)

Create a limit, market or market with range spot order. This function gives full flexibility for spot orders.

<https://developers.quoine.com/#orders>

#### Parameters

- **order\_type** (*string*) – required - limit, market or market\_with\_range
- **product\_id** (*int*) – required
- **side** (*string*) – required - buy or sell
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency
- **price\_range** (*string*) – optional For order\_type of market\_with\_range only, slip-page of the order.

```
order = client.create_order(  
    type=Quoinex.ORDER_TYPE_LIMIT  
    product_id=1,  
    side=Quoinex.SIDE_BUY,  
    quantity='100',  
    price='0.00001')
```

**Returns** API response

```
{  
    "id": 2157474,  
    "order_type": "limit",  
    "quantity": "0.01",  
    "disc_quantity": "0.0",  
    "iceberg_total_quantity": "0.0",  
    "side": "sell",  
    "filled_quantity": "0.0",  
    "price": "500.0",  
    "created_at": 1462123639,  
    "updated_at": 1462123639,  
    "status": "live",  
    "leverage_level": 1,  
    "source_exchange": "QUOINE",  
    "product_id": 1,  
    "product_code": "CASH",  
    "funding_currency": "USD",  
    "currency_pair_code": "BTCUSD",  
    "order_fee": "0.0",  
    "margin_used": "0.0",  
    "margin_interest": "0.0",  
    "unwound_trade_leverage_level": null,  
}
```



**Raises** QuoineResponseException, QuoineAPIException

**create\_limit\_buy** (*product\_id*, *quantity*, *price*)

Create a limit spot buy order

<https://developers.quoine.com/#orders>

#### Parameters

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency

```
order = client.create_limit_buy(
    product_id=1,
    quantity='100',
    price='0.00001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_limit\_sell** (*product\_id*, *quantity*, *price*)

Create a limit spot sell order

<https://developers.quoine.com/#orders>

#### Parameters

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency

```
order = client.create_limit_sell(
    product_id=1,
    quantity='100',
    price='0.00001')
```

#### Returns API response

```
{
    "id": 2157474,
    "order_type": "limit",
    "quantity": "0.01",
    "disc_quantity": "0.0",
    "iceberg_total_quantity": "0.0",
    "side": "sell",
    "filled_quantity": "0.0",
    "price": "500.0",
    "created_at": 1462123639,
    "updated_at": 1462123639,
    "status": "live",
    "leverage_level": 1,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD",
    "order_fee": "0.0",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
}
```

#### Raises QuoineResponseException, QuoineAPIException

#### **create\_market\_buy** (*product\_id*, *quantity*, *price\_range=None*)

Create a market spot buy order

<https://developers.quoine.com/#orders>

#### Parameters

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price\_range** (*string*) – optional - slippage of the order.

```
order = client.create_market_buy(
    product_id=1,
    quantity='100')

# place a market buy with range for slippage
order = client.create_market_buy(
    product_id=1,
    quantity='100',
    price_range='0.001')
```

#### Returns API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_market\_sell** (*product\_id*, *quantity*, *price\_range=None*)

Create a market spot sell order

<https://developers.quoine.com/#orders>

#### Parameters

- **product\_id** (*int*) – required
- **quantity** (*string*) – required quantity to buy or sell
- **price\_range** (*string*) – optional - slippage of the order.

```
order = client.create_market_sell(
    product_id=1,
    quantity='100')

# place a market sell with range for slippage
order = client.create_market_sell(
    product_id=1,
    quantity='100',
    price_range='0.001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
```

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```
"side": "sell",
"filled_quantity": "0.0",
"price": "500.0",
"created_at": 1462123639,
"updated_at": 1462123639,
"status": "live",
"leverage_level": 1,
"source_exchange": "QUOINE",
"product_id": 1,
"product_code": "CASH",
"funding_currency": "USD",
"currency_pair_code": "BTCUSD",
"order_fee": "0.0",
"margin_used": "0.0",
"margin_interest": "0.0",
"unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**create\_margin\_order**(*order\_type*, *product\_id*, *side*, *quantity*, *price*, *leverage\_level*=2,  
*price\_range*=None, *funding\_currency*=None, *order\_direction*=None)

Create a leveraged margin order of type limit, market, or market with range

Only available on Quoinex

To trade at any specific leverage level, you will first need to go to margin trading dashboard, click on that leverage level and then confirm to get authorized. Or you can do it using the `update_leverage_level` function

<https://developers.quoise.com/#orders>

#### Parameters

- **order\_type** (*string*) – required - limit, market or market\_with\_range
- **product\_id** (*int*) – required
- **side** (*string*) – required - buy or sell
- **quantity** (*string*) – required quantity to buy or sell
- **price** (*string*) – required price per unit of cryptocurrency
- **leverage\_level** (*int*) – optional - 2, 4, 5, 10 or 25 (default 2)
- **price\_range** (*string*) – optional - For order\_type of market\_with\_range only, slip-page of the order.
- **funding\_currency** (*string*) – optional - Currency used to fund the trade with. Default is quoted currency

```
order = client.create_order(
    type=Quoinex.ORDER_TYPE_LIMIT
    product_id=1,
    side=Quoinex.SIDE_BUY,
    quantity='100',
    price='0.00001')
```

**Returns** API response

```
{
  "id": 2157474,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.0",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "live",
  "leverage_level": 1,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
  "margin_used": "0.0",
  "margin_interest": "0.0",
  "unwound_trade_leverage_level": null,
}
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_order**(*order\_id*)

Get an order

<https://developers.quoine.com/#get-an-order>

**Parameters** *order\_id*(*int*) – required

```
order = client.get_order(order_id=2157479)
```

**Returns** API response

```
{
  "id": 2157479,
  "order_type": "limit",
  "quantity": "0.01",
  "disc_quantity": "0.0",
  "iceberg_total_quantity": "0.0",
  "side": "sell",
  "filled_quantity": "0.01",
  "price": "500.0",
  "created_at": 1462123639,
  "updated_at": 1462123639,
  "status": "filled",
  "leverage_level": 2,
  "source_exchange": "QUOINE",
  "product_id": 1,
  "product_code": "CASH",
  "funding_currency": "USD",
  "currency_pair_code": "BTCUSD",
  "order_fee": "0.0",
```

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```

"margin_used": "0.0",
"margin_interest": "0.0",
"unwound_trade_leverage_level": null,
"executions": [
    {
        "id": 4566133,
        "quantity": "0.01",
        "price": "500.0",
        "taker_side": "buy",
        "my_side": "sell",
        "created_at": 1465396785
    }
]
}

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_orders** (*funding\_currency=None, product\_id=None, status=None, with\_details=False, limit=None, page=None*)

Get a list of orders using filters with pagination

<https://developers.quotine.com/#get-orders>

#### Parameters

- **funding\_currency** (*string*) – optional - filter orders based on funding currency
- **product\_id** (*int*) – optional - filter orders based on product
- **status** (*string*) – optional - filter orders based on status
- **with\_details** (*bool*) – optional - return full order details (attributes between \*) including executions
- **limit** (*int*) – optional - page limit
- **page** (*int*) – optional - page number

```
orders = client.get_orders(product_id=1, limit=10)
```

**Returns** API response

```

{
    "models": [
        {
            "id": 2157474,
            "order_type": "limit",
            "quantity": "0.01",
            "disc_quantity": "0.0",
            "iceberg_total_quantity": "0.0",
            "side": "sell",
            "filled_quantity": "0.0",
            "price": "500.0",
            "created_at": 1462123639,
            "updated_at": 1462123639,
            "status": "live",
            "leverage_level": 1,

```

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```

        "source_exchange": "QUOINE",
        "product_id": 1,
        "product_code": "CASH",
        "funding_currency": "USD",
        "currency_pair_code": "BTCUSD",
        "unwound_trade_leverage_level": null,
        "order_fee": "0.0",
        "margin_used": "0.0",
        "margin_interest": "0.0",
        "executions": []
    }
],
"current_page": 1,
"total_pages": 1
}

```

**Raises** QuoineResponseException, QuoineAPIException

**cancel\_order** (*order\_id*)

Cancel an order

<https://developers.quotine.com/#cancel-an-order>

**Parameters** **order\_id** (*int*) – required

```
result = client.cancel_order(order_id=2157479)
```

**Returns** API response

```

{
    "id": 2157474,
    "order_type": "limit",
    "quantity": "0.01",
    "disc_quantity": "0.0",
    "iceberg_total_quantity": "0.0",
    "side": "sell",
    "filled_quantity": "0.0",
    "price": "500.0",
    "created_at": 1462123639,
    "updated_at": 1462123639,
    "status": "cancelled",
    "leverage_level": 1,
    "source_exchange": "QUOINE",
    "product_id": 1,
    "product_code": "CASH",
    "funding_currency": "USD",
    "currency_pair_code": "BTCUSD"
}

```

**Raises** QuoineResponseException, QuoineAPIException

**update\_live\_order** (*order\_id*, *quantity=None*, *price=None*)

Update a live order

<https://developers.quotine.com/#edit-a-live-order>

**Parameters**

- **order\_id** (*int*) – required
- **quantity** (*string*) – optional - one or both of quantity or price should be set
- **price** (*string*) – optional - one or both of quantity or price should be set

```
order = client.update_live_order(  
    order_id=2157479,  
    quantity='101',  
    price='0.001')
```

**Returns** API response

```
{  
    "id": 2157474,  
    "order_type": "limit",  
    "quantity": "0.01",  
    "disc_quantity": "0.0",  
    "iceberg_total_quantity": "0.0",  
    "side": "sell",  
    "filled_quantity": "0.0",  
    "price": "500.0",  
    "created_at": 1462123639,  
    "updated_at": 1462123639,  
    "status": "cancelled",  
    "leverage_level": 1,  
    "source_exchange": "QUOINE",  
    "product_id": 1,  
    "product_code": "CASH",  
    "funding_currency": "USD",  
    "currency_pair_code": "BTCUSD"  
}
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_order\_trades** (*order\_id*)

Get an orders trades

<https://developers.quoine.com/#get-an-order's-trades>

**Parameters** **order\_id** (*int*) – required

```
trades = client.get_order_trades(order_id=2157479)
```

**Returns** API response

```
[  
    {  
        "id": 57896,  
        "currency_pair_code": "BTCUSD",  
        "status": "closed",  
        "side": "short",  
        "margin_used": "0.83588",  
        "open_quantity": "0.01",  
        "close_quantity": "0.0",
```

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```

        "quantity": "0.01",
        "leverage_level": 5,
        "product_code": "CASH",
        "product_id": 1,
        "open_price": "417.65",
        "close_price": "417.0",
        "trader_id": 3020,
        "open_pnl": "0.0",
        "close_pnl": "0.0065",
        "pnl": "0.0065",
        "stop_loss": "0.0",
        "take_profit": "0.0",
        "funding_currency": "USD",
        "created_at": 1456250726,
        "updated_at": 1456251837,
        "close_fee": "0.0",
        "total_interest": "0.02",
        "daily_interest": "0.02"
    }
]

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_my\_executions** (*product\_id*, *limit=None*, *page=None*)

Get list of your executions by product with pagination

<https://developers.quotine.com/#get-your-executions>

#### Parameters

- **product\_id** (*int*) – required
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

```
executions = client.get_my_executions(product_id=1)
```

**Returns** API response

```

{
  "models": [
    {
      "id": 1001232,
      "quantity": "0.37153179",
      "price": "390.0",
      "taker_side": "sell",
      "my_side": "sell",
      "created_at": 1457193798
    }
  ],
  "current_page": 1,
  "total_pages": 2
}

```

**Raises** QuoineResponseException, QuoineAPIException

**get\_fiat\_accounts()**

Get list of fiat accounts

<https://developers.quoine.com/#get-fiat-accounts>

```
accounts = client.get_fiat_accounts()
```

**Returns** API response

```
[
  {
    "id": 4695,
    "currency": "USD",
    "currency_symbol": "$",
    "balance": "10000.1773",
    "pusher_channel": "user_3020_account_usd",
    "lowest_offer_interest_rate": "0.00020",
    "highest_offer_interest_rate": "0.00060",
    "exchange_rate": "1.0",
    "currency_type": "fiat",
    "margin": "0.0",
    "free_margin": "10000.1773"
  }
]
```

**Raises** QuoineResponseException, QuoineAPIException**create\_fiat\_account(currency)**

Create a fiat account for a currency

<https://developers.quoine.com/#create-a-fiat-account>**Parameters** **currency** (*string*) – required

```
account = client.create_fiat_accounts(currency='USD')
```

**Returns** API response

```
{
  "id": 5595,
  "currency": "USD",
  "currency_symbol": "$",
  "balance": "0.0",
  "pusher_channel": "user_3122_account_usd",
  "lowest_offer_interest_rate": "0.00020",
  "highest_offer_interest_rate": "0.00060",
  "exchange_rate": "1.0",
  "currency_type": "fiat",
  "margin": "0.0",
  "free_margin": "0.0"
}
```

**Raises** QuoineResponseException, QuoineAPIException**get\_crypto\_accounts()**

Get list of crypto accounts

<https://developers.quoine.com/#get-crypto-accounts>

```
accounts = client.get_crypto_accounts()
```

**Returns** API response

```
[
  {
    "id": 4668,
    "balance": "4.99",
    "address": "1F25zWAQ1BAAppNxLV3KtK6aTNhNg5Hg",
    "currency": "BTC",
    "currency_symbol": "B",
    "pusher_channel": "user_3020_account_btc",
    "minimum_withdraw": 0.02,
    "lowest_offer_interest_rate": "0.00049",
    "highest_offer_interest_rate": "0.05000",
    "currency_type": "crypto"
  }
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_account\_balances()**

Get all account balances

<https://developers.quoine.com/#get-all-account-balances>

```
account = client.get_account_balances()
```

**Returns** API response

```
[
  {
    "currency": "BTC",
    "balance": "0.04925688"
  },
  {
    "currency": "USD",
    "balance": "7.17696"
  },
  {
    "currency": "JPY",
    "balance": "356.01377"
  }
]
```

**Raises** QuoineResponseException, QuoineAPIException

**get\_main\_asset()**

Get name of your main asset with balance

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "currency": "JPY",
  "total_amount": "23050.04"
}
```

**create\_loan\_bid**(*rate*, *quantity*, *currency*)

Create a loan bid

<https://developers.quoise.com/#create-a-loan-bid>

**Parameters**

- **rate** (*string*) – daily interest rate, e.g 0.0002 (0.02%), must be <= 0.07%
- **quantity** (*string*) – amount to lend
- **currency** (*string*) – lending currency (all available in the system except JPY)

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 3580,
  "bidask_type": "limit",
  "quantity": "50.0",
  "currency": "USD",
  "side": "bid",
  "filled_quantity": "0.0",
  "status": "live",
  "rate": "0.0002",
  "user_id": 3020
}
```

**get\_loan\_bid**(*currency*, *limit=None*, *page=None*)

Get loan bids

<https://developers.quoise.com/#get-loan-bids>

**Parameters**

- **currency** (*string*) – lending currency (all available in the system except JPY)
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 3580,
  "bidask_type": "limit",
  "quantity": "50.0",
  "currency": "USD",
  "side": "bid",
  "filled_quantity": "0.0",
  "status": "live",
  "rate": "0.0002",
  "user_id": 3020
}
```

**close\_loan\_bid** (*loan\_bid\_id*)

Close loan bid

<https://developers.quine.com/#close-loan-bid>

**Parameters** *loan\_bid\_id* (*int*) – load bid Id

**Returns** API response

**Raises** QuineResponseException, QuineAPIException

```
{
  "id": 3580,
  "bidask_type": "limit",
  "quantity": "50.0",
  "currency": "USD",
  "side": "bid",
  "filled_quantity": "0.0",
  "status": "closed",
  "rate": "0.0007",
  "user_id": 3020
}
```

**get\_loans** (*currency*, *limit=None*, *page=None*)

Get loans

<https://developers.quine.com/#get-loans>

**Parameters**

- **currency** (*string*) – lending currency (all available in the system except JPY)
- **limit** (*int*) – Limit execution per request
- **page** (*int*) – Page

**Returns** API response

**Raises** QuineResponseException, QuineAPIException

```
{
  "models": [
    {
      "id": 144825,
      "quantity": "495.1048",
      "rate": "0.0005",
      "created_at": 1464168246,
      "lender_id": 312,
      "borrower_id": 5712,
      "status": "open",
      "currency": "JPY",
      "fund_reloaned": true
    }
  ],
  "current_page": 1,
  "total_pages": 1
}
```

**update\_loan** (*loan\_id*, *fund\_reloaned=None*)

Update a loan

<https://developers.quine.com/#update-a-loan>

TODO: work out what else we can update

**Parameters**

- **loan\_id** (*int*) – Loan Id
- **fund\_reloaned** (*bool*) – optional

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 144825,
  "quantity": "495.1048",
  "rate": "0.0005",
  "created_at": 1464168246,
  "lender_id": 312,
  "borrower_id": 5712,
  "status": "open",
  "currency": "JPY",
  "fund_reloaned": false
}
```

**get\_trading\_accounts()**

Get Trading Accounts

<https://developers.quotine.com/#get-trading-accounts>

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
[
  {
    "id": 1759,
    "leverage_level": 10,
    "max_leverage_level": 10,
    "pnl": "0.0",
    "equity": "10000.1773",
    "margin": "4.2302",
    "free_margin": "9995.9471",
    "trader_id": 4807,
    "status": "active",
    "product_code": "CASH",
    "currency_pair_code": "BTCUSD",
    "position": "0.1",
    "balance": "10000.1773",
    "created_at": 1421992165,
    "updated_at": 1457242996,
    "pusher_channel": "trading_account_1759",
    "margin_percent": "0.1",
    "product_id": 1,
    "funding_currency": "USD",
    "base_open_price": 0,
    "long_summary": {
      "pnl": "0.0",
      "position": "0.0",
      "base_open_price": "0.0"
    },
    "short_summary": {
```

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```

        "pnl": "0.0",
        "position": "0.0",
        "base_open_price": "0.0"
    }
},
#...
]
```

**get\_trading\_account** (*account\_id*)

Get a Trading Account

<https://developers.quoise.com/#get-a-trading-account>**Parameters** *account\_id* (*int*) – Trading Account Id**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 1759,
  "leverage_level": 10,
  "max_leverage_level": 10,
  "pnl": "0.0",
  "equity": "10000.1773",
  "margin": "4.2302",
  "free_margin": "9995.9471",
  "trader_id": 4807,
  "status": "active",
  "product_code": "CASH",
  "currency_pair_code": "BTCUSD",
  "position": "0.1",
  "balance": "10000.1773",
  "created_at": 1421992165,
  "updated_at": 1457242996,
  "pusher_channel": "trading_account_1759",
  "margin_percent": "0.1",
  "product_id": 1,
  "funding_currency": "USD"
}
```

**update\_leverage\_level** (*account\_id*, *leverage\_level*)

Update Trading account leverage level

Only available on Quoinex

<https://developers.quoise.com/#update-leverage-level>**Parameters**

- *account\_id* (*int*) – Trading Account Id
- *leverage\_level* (*int*) – New leverage level

**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 1759,
```

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```

    "leverage_level": 25,
    "max_leverage_level": 25,
    "pnl": "0.0",
    "equity": "10000.1773",
    "margin": "4.2302",
    "free_margin": "9995.9471",
    "trader_id": 4807,
    "status": "active",
    "product_code": "CASH",
    "currency_pair_code": "BTCUSD",
    "position": "0.1",
    "balance": "10000.1773",
    "created_at": 1421992165,
    "updated_at": 1457242996,
    "pusher_channel": "trading_account_1759",
    "margin_percent": "0.1",
    "product_id": 1,
    "funding_currency": "USD"
}

```

**get\_trades** (*funding\_currency=None, status=None, limit=None, page=None*)

Get Trades

<https://developers.quoise.com/#get-trades>

#### Parameters

- **funding\_currency** (*string*) – optional - get trades of a particular funding currency
- **status** (*string*) – optional - open or closed
- **limit** (*int*) – Limit trades per request
- **page** (*int*) – Page

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```

{
  "models": [
    {
      "id": 57896,
      "currency_pair_code": "BTCUSD",
      "status": "open",
      "side": "short",
      "margin_used": "0.83588",
      "open_quantity": "0.01",
      "close_quantity": "0.0",
      "quantity": "0.01",
      "leverage_level": 5,
      "product_code": "CASH",
      "product_id": 1,
      "open_price": "417.65",
      "close_price": "417.0",
      "trader_id": 3020,
      "open_pnl": "0.0",
      "close_pnl": "0.0",
      "pnl": "0.0065",
    }
  ]
}

```

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```

        "stop_loss": "0.0",
        "take_profit": "0.0",
        "funding_currency": "USD",
        "created_at": 1456250726,
        "updated_at": 1456251837,
        "close_fee": "0.0",
        "total_interest": "0.02",
        "daily_interest": "0.02"
    },
    #...
],
"current_page": 1,
"total_pages": 1
}

```

**close\_trade** (*trade\_id*, *closed\_quantity=None*)

Close a trade

<https://developers.quoise.com/#close-a-trade>

#### Parameters

- **trade\_id** (*int*) – Trade Id
- **closed\_quantity** (*string*) – optional - The quantity you want to close

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```

{
    "id": 57896,
    "currency_pair_code": "BTCUSD",
    "status": "closed",
    "side": "short",
    "margin_used": "0.83588",
    "open_quantity": "0.01",
    "close_quantity": "0.0",
    "quantity": "0.01",
    "leverage_level": 5,
    "product_code": "CASH",
    "product_id": 1,
    "open_price": "417.65",
    "close_price": "417.0",
    "trader_id": 3020,
    "open_pnl": "0.0",
    "close_pnl": "0.0065",
    "pnl": "0.0065",
    "stop_loss": "0.0",
    "take_profit": "0.0",
    "funding_currency": "USD",
    "created_at": 1456250726,
    "updated_at": 1456251837,
    "close_fee": "0.0",
    "total_interest": "0.02",
    "daily_interest": "0.02"
}

```

**close\_all\_trades** (*side=None*)

Close all trades

<https://developers.quoise.com/#close-all-trade>

**Parameters** *side* (*string*) – optional - Close all trades of this side. Close trades of both side if left blank

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
[
  {
    "id": 57896,
    "currency_pair_code": "BTCUSD",
    "status": "closed",
    "side": "short",
    "margin_used": "0.83588",
    "open_quantity": "0.01",
    "close_quantity": "0.0",
    "quantity": "0.01",
    "leverage_level": 5,
    "product_code": "CASH",
    "product_id": 1,
    "open_price": "417.65",
    "close_price": "417.0",
    "trader_id": 3020,
    "open_pnl": "0.0",
    "close_pnl": "0.0065",
    "pnl": "0.0065",
    "stop_loss": "0.0",
    "take_profit": "0.0",
    "funding_currency": "USD",
    "created_at": 1456250726,
    "updated_at": 1456251837,
    "close_fee": "0.0",
    "total_interest": "0.02",
    "daily_interest": "0.02"
  }
]
```

**update\_trade** (*trade\_id*, *stop\_loss*, *take\_profit*)

Update a trade

<https://developers.quoise.com/#update-a-trade>

**Parameters**

- **trade\_id** (*int*) – Trade Id
- **stop\_loss** (*string*) – Stop Loss price
- **take\_profit** (*string*) – Take Profit price

**Returns** API response

**Raises** QuoineResponseException, QuoineAPIException

```
{
  "id": 57897,
  "currency_pair_code": "BTCUSD",
  "status": "open",
```

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```

    "side": "short",
    "margin_used": "0.83588",
    "open_quantity": "0.01",
    "close_quantity": "0.0",
    "quantity": "0.01",
    "leverage_level": 5,
    "product_code": "CASH",
    "product_id": 1,
    "open_price": "417.65",
    "close_price": "0",
    "trader_id": 3020,
    "open_pnl": "0.0",
    "close_pnl": "0.0065",
    "pnl": "0.0065",
    "stop_loss": "300.0",
    "take_profit": "600.0",
    "funding_currency": "USD",
    "created_at": 1456250726,
    "updated_at": 1456251837,
    "close_fee": "0.0",
    "total_interest": "0.02",
    "daily_interest": "0.02"
}

```

**get\_trade\_loans** (*trade\_id*)

Get a trade's loans

<https://developers.quoise.com/#get-a-trade's-loans>**Parameters** *trade\_id* (*int*) – Trade Id**Returns** API response**Raises** QuoineResponseException, QuoineAPIException

```

[
  {
    "id": 103520,
    "quantity": "42.302",
    "rate": "0.0002",
    "created_at": 1461998432,
    "lender_id": 100,
    "borrower_id": 3020,
    "status": "open",
    "currency": "USD",
    "fund_reloaned": true
  }
]

```

**class** quoine.client.**Quoinex** (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)Bases: *quoise.client.Quoine***class** quoine.client.**Qryptos** (*api\_token\_id*, *api\_secret*, *vendor\_id=None*, *language=None*)Bases: *quoise.client.Quoinex***API\_URL** = 'https://api.qryptos.com'

## exceptions module

**exception** `quoine.exceptions.QuoineAPIException` (*response*)

Bases: `exceptions.Exception`

Exception class to handle general API Exceptions

*code* values

**HTTP 400: Bad Request** There was an error with the request. The body of the response will have more info

**HTTP 401: Unauthorized** Token is invalid. If your API key is wrong a 401 will also be served, so check the response body, it might be that the API\_KEY is invalid.

**HTTP 422: Unprocessable Entity** There was an error with the request. The body of the response will have more info. Some possible reasons: - Missing params - The format of data is wrong

**HTTP 429: Too Many Requests** This status indicates that the user has sent too many requests in a given amount of time

**HTTP 503: Service Unavailable** Many reasons, body will include details - An internal error on Authy. - Your application is accessing an API call you don't have access too. - API usage limit. If you reach API usage limits a 503 will be returned, please wait until you can do the call again.

*message* format

```
{
  "user": ["not_enough_fund"]
}
```

`__init__` (*response*)

`x.__init__(...)` initializes x; see `help(type(x))` for signature

**exception** `quoine.exceptions.QuoineRequestException` (*message*)

Bases: `exceptions.Exception`

`__init__` (*message*)

`x.__init__(...)` initializes x; see `help(type(x))` for signature

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