
python-quoise Documentation

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Contents

1	Features	3
2	TODO	5
3	Quick Start	7
4	Donate	9
5	Other Exchanges	11
5.1	Contents	11
5.2	Index	64
	Python Module Index	65
	Index	67

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

Features

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

CHAPTER 2

TODO

- Websocket implementation

CHAPTER 3

Quick Start

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

Donate

If this library helped you out feel free to donate.

- ETH: 0x79c9A113d63B6AC024c1AAae6f6419721C3611A3
- NEO: AVJB4ZgN7VgSUtArCt94y7ZYT6d5NDfpBo
- 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 [IDEX](#) check out my [python-idex](#) 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 quoine.client import Quoinex

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

5.1.3 Products Endpoints

class `quoine.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.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_product (*product_id*)

Get product details

<https://developers.quoise.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.quoise.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.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 <= 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.quoise.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.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",
```

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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.quoise.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.quoise.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.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
- **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.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",
}
```

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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,
```

(continues on next page)

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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)

(continued from previous page)

```

        "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.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",
  "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

v0.1.2 - 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.quoine.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.quoise.com/#products>

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

Returns list - List of product dictionaries

```
[
    {
        "id": 5,
        "product_type": "CurrencyPair",
        "code": "CASH",
        "name": "CASH Trading",

```

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```
"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_btccjpy_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.quoine.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",

```

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```

    "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.quoine.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.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  
    }  
  ],  
  "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_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"
    ]
  ],
  "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.quotine.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",
```

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```

    "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",

```

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```

    "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.quotine.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",
    "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",
    "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",

```

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```

    "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",
    "margin_used": "0.0",
    "margin_interest": "0.0",
    "unwound_trade_leverage_level": null,
    "executions": [

```

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```

    {
        "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,
            "source_exchange": "QUOINE",
            "product_id": 1,
            "product_code": "CASH",
            "funding_currency": "USD",

```

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```

        "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.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

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

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",  
        "quantity": "0.01",  
        "leverage_level": 5,  
        "product_code": "CASH",  
        "product_id": 1,  
        "open_price": "417.65",
```

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```

        "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.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

create_fiat_account (*currency*)

Create a fiat account for a currency

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

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

Returns API response

```
[
  {
    "id": 4668,
    "balance": "4.99",
    "address": "1F25zWAQ1BAAppNxLV3KtK6aTNhxNg5Hg",
    "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.quoise.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*) – loan 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.quoine.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.quoine.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

5.2 Index

- [genindex](#)

q

`quoine.client`, [38](#)

`quoine.exceptions`, [64](#)

Symbols

`__init__()` (*quoine.client.Quoine* method), 39
`__init__()` (*quoine.exceptions.QuoineAPIException* method), 64
`__init__()` (*quoine.exceptions.QuoineRequestException* method), 64

A

`API_URL` (*quoine.client.Qryptos* attribute), 63
`API_URL` (*quoine.client.Quoine* attribute), 38
`API_VERSION` (*quoine.client.Quoine* attribute), 38

C

`cancel_order()` (*quoine.client.Quoine* method), 51
`close_all_trades()` (*quoine.client.Quoine* method), 61
`close_loan_bid()` (*quoine.client.Quoine* method), 56
`close_trade()` (*quoine.client.Quoine* method), 61
`create_fiat_account()` (*quoine.client.Quoine* method), 54
`create_limit_buy()` (*quoine.client.Quoine* method), 44
`create_limit_sell()` (*quoine.client.Quoine* method), 45
`create_loan_bid()` (*quoine.client.Quoine* method), 56
`create_margin_order()` (*quoine.client.Quoine* method), 48
`create_market_buy()` (*quoine.client.Quoine* method), 46
`create_market_sell()` (*quoine.client.Quoine* method), 47
`create_order()` (*quoine.client.Quoine* method), 43

G

`get_account_balances()` (*quoine.client.Quoine* method), 55

`get_crypto_accounts()` (*quoine.client.Quoine* method), 54
`get_executions()` (*quoine.client.Quoine* method), 41
`get_executions_since_time()` (*quoine.client.Quoine* method), 42
`get_fiat_accounts()` (*quoine.client.Quoine* method), 53
`get_interest_rate_ladder()` (*quoine.client.Quoine* method), 43
`get_loan_bid()` (*quoine.client.Quoine* method), 56
`get_loans()` (*quoine.client.Quoine* method), 57
`get_main_asset()` (*quoine.client.Quoine* method), 55
`get_my_executions()` (*quoine.client.Quoine* method), 53
`get_order()` (*quoine.client.Quoine* method), 49
`get_order_book()` (*quoine.client.Quoine* method), 41
`get_order_trades()` (*quoine.client.Quoine* method), 52
`get_orders()` (*quoine.client.Quoine* method), 50
`get_product()` (*quoine.client.Quoine* method), 40
`get_products()` (*quoine.client.Quoine* method), 39
`get_trade_loans()` (*quoine.client.Quoine* method), 63
`get_trades()` (*quoine.client.Quoine* method), 60
`get_trading_account()` (*quoine.client.Quoine* method), 59
`get_trading_accounts()` (*quoine.client.Quoine* method), 58

L

`LANGUAGE` (*quoine.client.Quoine* attribute), 39
`LEVERAGE_LEVEL_10` (*quoine.client.Quoine* attribute), 39
`LEVERAGE_LEVEL_2` (*quoine.client.Quoine* attribute), 39
`LEVERAGE_LEVEL_25` (*quoine.client.Quoine* attribute), 39

LEVERAGE_LEVEL_4 (*quoine.client.Quoine attribute*),
39
LEVERAGE_LEVEL_5 (*quoine.client.Quoine attribute*),
39

M

MARGIN_ORDER_DIRECTION_NET
(*quoine.client.Quoine attribute*), 39
MARGIN_ORDER_DIRECTION_ONE
(*quoine.client.Quoine attribute*), 39
MARGIN_ORDER_DIRECTION_TWO
(*quoine.client.Quoine attribute*), 39

O

ORDER_TYPE_LIMIT (*quoine.client.Quoine attribute*),
39
ORDER_TYPE_MARKET (*quoine.client.Quoine attribute*), 39
ORDER_TYPE_MARKET_RANGE (*quoine.client.Quoine attribute*), 39

Q

Qryptos (*class in quoine.client*), 63
Quoine (*class in quoine.client*), 38
quoine.client (*module*), 38
quoine.exceptions (*module*), 64
QuoineAPIException, 64
QuoineRequestException, 64
Quoinex (*class in quoine.client*), 63

S

SIDE_BUY (*quoine.client.Quoine attribute*), 39
SIDE_SELL (*quoine.client.Quoine attribute*), 39
STATUS_CANCELLED (*quoine.client.Quoine attribute*),
39
STATUS_FILLED (*quoine.client.Quoine attribute*), 39
STATUS_LIVE (*quoine.client.Quoine attribute*), 39
STATUS_PARTIAL (*quoine.client.Quoine attribute*), 39

U

update_leverage_level() (*quoine.client.Quoine method*), 59
update_live_order() (*quoine.client.Quoine method*), 51
update_loan() (*quoine.client.Quoine method*), 57
update_trade() (*quoine.client.Quoine method*), 62

V

VENDOR_ID (*quoine.client.Quoine attribute*), 39