



OpenDEX API Documentation

Term of Service

OpenDEX provides comprehensive and powerful API's that allow users to integrate deeply within the decentralized ecosystem.

Whether developing a bot, user interface, or whatever else, the API is the same interface used by the official OpenDEX web client to provide exchange live details to users.

For more details about API integration you can reach out to support@opendex.market

Which API To Use?

OpenDEX's **HTTP API** can be used for general queries and requests such as capturing the available currencies, live tickers, 24 hours volume and much more.

HTTP API Introduction

The HTTP API is available via <https://opendex.market/apis/>

All HTTP endpoints in the public API use the **GET method**.

All results are provided as **JSON**.

Errors

If an error is returned from the API, it will be in the form of a simple object containing an error property whose value is the error message.

For example:

```
{ error: 'Currencies Not Found' }
```

returnTicker

Designed to behave similar to the API call of the same name provided by the Poloniex/IDEX HTTP API, with the addition of highs and lows. Returns all necessary 24 hr data.

Please note: If any field is unavailable due to a lack of trade history or a lack of 24hr data, the field will be set to 'N/A'. percentChange, baseVolume, and quoteVolume will never be 'N/A' but may be 0.

Request URL: <https://opendex.market/apis/returnTicker>

Response Code: 200

Response JSON:

```
{
  "ETH-OPDEX": {
    "last": "0.000041000000",
    "high": "0",
    "low": "0",
    "lowestAsk": "0.000040980000",
    "highestBid": "0.000000000000",
    "percentChange": "0.00",
    "baseVolume": "0",
```



```
    "quoteVolume": "0"
  },
  "ETH-BEDCOIN": {
    "last": "0.000390000000",
    "high": "0.000550000000",
    "low": "0.000390000000",
    "lowestAsk": "0.000390000000",
    "highestBid": "0.000037000000",
    "percentChange": "-29.09",
    "baseVolume": "0.000940",
    "quoteVolume": "2.000000000000"
  },
  "ETH-JOB": {
    "last": "0.000000010000",
    "high": "0.000000010000",
    "low": "0.000000010000",
    "lowestAsk": "0.000001000000",
    "highestBid": "0.000000000000",
    "percentChange": "0.00",
    "baseVolume": "0.000010",
    "quoteVolume": "1000.000000000000"
  }
}
```

Request URL: <https://opendex.market/apis/returnTicker/ETH-OPDEX>

Response Code: 200

Response JSON:

```
{
  "ETH-OPDEX": {
    "last": "0.000041000000",
    "high": "0",
    "low": "0",
    "lowestAsk": "0.000040980000",
    "highestBid": "0.000000000000",
    "percentChange": "0.00",
    "baseVolume": "0",
    "quoteVolume": "0"
  }
}
```

returnCurrencies

Returns an object of token data indexed by symbol.

Request URL: <https://opendex.market/apis/returnCurrencies>

Response Code: 200

Response JSON:



```
{
  "ETH": {
    "name": "Ethereum",
    "blockchain": "Ethereum",
    "contractaddress": "0x0000000000000000000000000000000000000000",
    "decimal": "18"
  },
  "OPDEX": {
    "name": "OpenDEX",
    "blockchain": "Ethereum",
    "contractaddress": "0x78ff5886fa33b238c236127f6459f6db52cfca1e",
    "decimal": "18"
  },
  "USDT": {
    "name": "Tether USD",
    "blockchain": "Ethereum",
    "contractaddress": "0xdAC17F958D2ee523a2206206994597C13D831ec7",
    "decimal": "6"
  }
}
```

return24Volume

Returns the 24-hour volume for all markets, plus totals for primary currencies.

Request URL: <https://opendex.market/apis/return24Volume>

Response Code: 200

Response JSON:

```
{
  "ETH-FXBC": {
    "ETH": "0.020000",
    "FXBC": "4.000000000000"
  },
  "ETH-BEDCOIN": {
    "ETH": "0.000940",
    "BEDCOIN": "2.000000000000"
  },
  "ETH-JOB": {
    "ETH": "0.000010",
    "JOB": "1000.000000000000"
  },
  "ETH-OPDEX": {
    "ETH": "0",
    "OPDEX": "0"
  },
  "totalEth": "0.020950"
}
```



returnOrderBook

Returns the best-priced open orders for a given market.

The response is an object with asks and bids properties, each of which is an array that contains orders sorted by best price (lowest ask first, and highest bid first).

Please note: You have to pass PairName, TokenName and Count for getting result.

Request Format: `https://opendex.market/apis/returnOrderBook/<PairName>-<TokenName>/<Count>`

Request URL: `https://opendex.market/apis/returnOrderBook/ETH-BEDCOIN/2`

Response Code: 200

Response JSON:

```
{
  "bids": [{
    "orderid": 785,
    "user": "0xA87CE00C35D038DBC540fA758a82E792eB8aAEf3",
    "price": 0.000000050000,
    "totalqty": 10000.000000000000,
    "pendingqty": 10000.000000000000,
    "totalprice": 0.000500,
    "sumprice": 0.000500,
    "time": 1566508317.913
  }, {
    "orderid": 727,
    "user": "0xAC6345C48D5AF57Eb2886C551E4Bb7B465B6CcB1",
    "price": 0.000000040000,
    "totalqty": 3000.000000000000,
    "pendingqty": 3000.000000000000,
    "totalprice": 0.000120,
    "sumprice": 0.000620,
    "time": 1566348038.12
  }],
  "asks": [{
    "orderid": 787,
    "user": "0xd6E60842F9d5E45b6621b192712Bdae8E87b53Fb",
    "price": 0.000259000000,
    "totalqty": 359.991100210000,
    "pendingqty": 357.991100210000,
    "totalprice": 0.092720,
    "sumprice": 0.092720,
    "time": 1566510883.46
  }, {
    "orderid": 823,
    "user": "0x289A547b08F344fBF573eaD51f0F949803dD338E",
    "price": 0.000259000000,
```



```
        "totalqty": 15.000000000000,  
        "pendingqty": 15.000000000000,  
        "totalprice": 0.003885,  
        "sumprice": 0.096605,  
        "time": 1566678713.067  
    }  
}
```

returnTradeHistory

Return the past trades details for token.

The response is an object with price, quantity, wallet address of seller and buyer properties, each of which is an array that contains orders sorted by date (latest first).

Please note: You have to pass PairName, TokenName and Count for getting result.

Request Format: <https://opendex.market/apis/returnTradeHistory/<PairName>-<TokenName>/<Count>>

Request URL: <https://opendex.market/apis/TradeHistory/ETH-OPDEX/2>

Response Code: 200

Response JSON:

```
[  
  {  
    "tradetime": "8/23/2019 3:57:38 PM",  
    "price": 0.000032990000,  
    "quantity": 48438.920885120000,  
    "total": 1.5980000000001088000000000,  
    "buyer": "0xdA4Bf9FA28ff7527831BC841783ee243f8f402Db",  
    "seller": "0xdA4Bf9FA28ff7527831BC841783ee243f8f402Db",  
    "ordertype": "B",  
    "buyertradefee": 0.000000000000,  
    "sellertradefee": 0.000000000000  
  }, {  
    "tradetime": "8/23/2019 3:57:19 PM",  
    "price": 0.000032990000,  
    "quantity": 75780.539557440000,  
    "total": 2.499999999999456000000000,  
    "buyer": "0xdA4Bf9FA28ff7527831BC841783ee243f8f402Db",  
    "seller": "0xdA4Bf9FA28ff7527831BC841783ee243f8f402Db",  
    "ordertype": "B",  
    "buyertradefee": 0.000000000000,  
    "sellertradefee": 0.000000000000  
  }  
]
```