

Rexilion DataSource Public API

Metric reads and catalog discovery for client integrations.

This reference describes client-facing behavior only. Restricted products, administrative tooling, private evidence, raw source material, and platform operations are omitted.

Quickstart

Base URL	https://api.rexilion.com
Authentication	Send X-API-Key with authenticated requests.
Metric route	GET /v1/metrics/{category}/{metric}
Usage	Unlimited monthly usage paced at 600 API calls per minute.
History	Full historical Bitcoin metric data is available from 2020 for supported metric series.
Metric catalog	53 public metric routes across 9 groups.

Table Of Contents

Section	Page
Errors And Response Rules	2
Market	3
Addresses	4
Blocks	5
Transactions	6
Fees	7
Chain	8
Mining	9
Supply	10
UTXO	11

Compact request

```
GET /v1/metrics/mining/hash_rate_mean?a=BTC&i=10m
Host: api.rexilion.com
X-API-Key: YOUR_API_KEY

Response shape: [{ "t": 1718582400000, "v": 62.14 }]
```

`t` is the UTC millisecond timestamp. `v` is the numeric metric value. Metric reads return stored points only and do not create missing timestamp buckets.

Errors And Response Rules

This page is placed second for quick client handling during integration.

Data Exposed

Endpoint	Use
GET /health	Anonymous process liveness check. It does not expose data catalog content.
GET /openapi.json	API-keyed, sanitized OpenAPI contract for customer-facing routes.
GET /v1/assets	API-keyed asset catalog. Metric pages below show current metric asset support.
GET /v1/metadata/metrics	API-keyed sanitized metric catalog with categories, metrics, assets, intervals, and parameters.
GET /v1/metrics/{category}/{metric}	API-keyed stored metric time-series points.

Error Map

Status	Meaning	Detail
400	bad_request	Invalid category, metric, parameter, interval, asset, or market pair.
401	unauthorized	Missing or invalid API key for an authenticated route.
403	forbidden	Valid API key without entitlement for the requested product.
429	rate_limited	Request pacing limit reached.
502	source_unavailable	Stored data or upstream source is temporarily unavailable.
500	server_error	Unexpected service error.

Response Rules

- Metric responses use an array of points shaped as `t` and `v`.
- REXILION API provides real-time Bitcoin metric data through API-keyed metric reads.
- The latest returned UTC timestamp identifies the latest available point for each series.
- Large historical reads should use explicit `s` and `u` UTC millisecond bounds.
- Missing-source buckets are not synthesized into responses.
- This reference intentionally avoids restricted internals; use metric names, descriptions, supported parameters, and metadata for integration.

Rate-limit Headers

Header	Meaning
x-rate-limit-limit	Maximum API calls allowed in the effective fixed window.
x-rate-limit-remaining	API calls left after the current request.
x-rate-limit-reset	Seconds until the fixed window resets.
retry-after	Present on 429 responses; wait this many seconds before retrying.

```
HTTP/1.1 200 OK
x-rate-limit-limit: 600
x-rate-limit-remaining: 599
x-rate-limit-reset: 60
```

Market

market/{metric}

Market metrics describe exchange price relationships using aligned closed spot candles. The current public pair compares Coinbase spot with Binance spot.

Endpoint pattern	/v1/metrics/market/{metric}
Metrics listed	2
Asset examples	BTC
Intervals	1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	1h	Required
ex	coinbase_spot	Required
ref_ex	binance_spot	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
exchange_premium_gap	Absolute price difference between Coinbase spot and Binance spot for the same closed BTC candle.	market/exchange_premium_gap?a=BTC&i;=1h&ex;=coinbase_spot&ref;_ex=binance_spot
exchange_premium_index	Percentage premium between Coinbase spot and Binance spot for the same closed BTC candle.	market/exchange_premium_index?a=BTC&i;=1h&ex;=coinbase_spot&ref;_ex=binance_spot

Addresses

addresses/{metric}

Address metrics describe receiving, sending, and active address counts from standard Bitcoin script/address identities. Coinbase receivers are included; coinbase inputs have no sender.

Endpoint pattern	/v1/metrics/addresses/{metric}
Metrics listed	3
Asset examples	BTC
Intervals	1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
receiving_count	Unique standard Bitcoin script/address identities receiving at least one spendable output.	addresses/receiving_count?a=BTC&i;=1h
sending_count	Unique standard Bitcoin script/address identities whose previous outputs are spent.	addresses/sending_count?a=BTC&i;=1h
active_count	Unique union of receiving and sending identities.	addresses/active_count?a=BTC&i;=1h

Blocks

blocks/{metric}

Block metrics summarize selected Bitcoin blocks inside each closed interval. They are useful for block production, blockspace use, and block-level fee pressure.

Endpoint pattern	/v1/metrics/blocks/{metric}
Metrics listed	8
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
count	Number of selected Bitcoin blocks in the closed interval.	blocks/count?a=BTC&i;=10m
transaction_count_mean	Average number of transactions carried by selected blocks.	blocks/transaction_count_mean?a=BTC&i;=10m
fee_total_mean	Average transaction-fee revenue captured by selected blocks.	blocks/fee_total_mean?a=BTC&i;=10m
weight_utilization_mean	Average use of the Bitcoin block weight limit.	blocks/weight_utilization_mean?a=BTC&i;=10m
blockspace_feerate_mean	Average fee density paid for confirmed blockspace.	blocks/blockspace_feerate_mean?a=BTC&i;=10m
transaction_density_mean	Transaction density relative to consumed block weight.	blocks/transaction_density_mean?a=BTC&i;=10m
weight_total	Combined actual block weight for selected blocks.	blocks/weight_total?a=BTC&i;=10m
weight_mean	Average actual block weight across selected blocks.	blocks/weight_mean?a=BTC&i;=10m

Transactions

transactions/{metric}

Transaction metrics summarize Bitcoin activity in selected blocks. The category includes activity, fee-paying activity, size, input, output, and SegWit measures.

Endpoint pattern	/v1/metrics/transactions/{metric}
Metrics listed	10
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
count	All selected transactions, including coinbase transactions.	transactions/count?a=BTC&i=10m
fee_paying_count	Selected transactions that paid fees, excluding coinbase transactions.	transactions/fee_paying_count?a=BTC&i=10m
input_count	Total transaction inputs from selected stored block statistics.	transactions/input_count?a=BTC&i=10m
output_count	Total transaction outputs from selected stored block statistics.	transactions/output_count?a=BTC&i=10m
rate_mean	Average transaction activity pace across the closed interval.	transactions/rate_mean?a=BTC&i=10m
fee_paying_rate_mean	Average fee-paying transaction activity pace across the closed interval.	transactions/fee_paying_rate_mean?a=BTC&i=10m
fee_paying_share	Share of selected transactions that paid fees.	transactions/fee_paying_share?a=BTC&i=10m
size_total	Total transaction size from selected stored block statistics.	transactions/size_total?a=BTC&i=10m
size_mean	Average transaction size from selected stored block statistics.	transactions/size_mean?a=BTC&i=10m
segwit_count	SegWit transaction count from selected stored block statistics.	transactions/segwit_count?a=BTC&i=10m

Fees

fees/{metric}

Fee metrics describe transaction-fee activity captured by selected Bitcoin blocks. They support high-level fee monitoring without exposing private source material.

Endpoint pattern	/v1/metrics/fees/{metric}
Metrics listed	6
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
total	Total paid transaction fees in selected blocks.	fees/total?a=BTC&i;=10m
rate_mean	Average paid fee revenue pace across the closed interval.	fees/rate_mean?a=BTC&i;=10m
transaction_mean	Average transaction fee across selected transactions.	fees/transaction_mean?a=BTC&i;=10m
fee_paying_transaction_mean	Average fee across selected fee-paying transactions.	fees/fee_paying_transaction_mean?a=BTC&i;=10m
feerate_mean	Transaction-count weighted mean feerate from stored block facts.	fees/feerate_mean?a=BTC&i;=10m
high_fee_vbytes_share	Share of block virtual bytes whose transaction feerate is at least 50 sat/vB.	fees/high_fee_vbytes_share?a=BTC&i;=10m

Chain

chain/{metric}

Chain metrics describe timing behavior across selected Bitcoin block timestamps. This category is intentionally narrow and focused on public time-series reads.

Endpoint pattern	/v1/metrics/chain/{metric}
Metrics listed	1
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
block_interval_mean	Average elapsed time between selected Bitcoin block timestamps.	chain/block_interval_mean?a=BTC&i=10m

Mining

mining/{metric}

Mining metrics describe scheduled subsidy, miner revenue, fee mix, and public hash-rate samples for selected Bitcoin blocks.

Endpoint pattern	/v1/metrics/mining/{metric}
Metrics listed	8
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
subsidy_total	Scheduled block subsidy for selected blocks.	mining/subsidy_total?a=BTC&i;=10m
revenue_total	Combined subsidy and paid transaction-fee revenue for selected blocks.	mining/revenue_total?a=BTC&i;=10m
fee_revenue_share	Fee revenue share of total miner revenue.	mining/fee_revenue_share?a=BTC&i;=10m
revenue_rate_mean	Average miner revenue pace across the closed interval.	mining/revenue_rate_mean?a=BTC&i;=10m
fee_to_subsidy_ratio	Fee revenue compared with scheduled subsidy revenue.	mining/fee_to_subsidy_ratio?a=BTC&i;=10m
hash_rate_mean	Estimated Bitcoin network hash rate for each closed bucket.	mining/hash_rate_mean?a=BTC&i;=10m
subsidy_mean	Average scheduled subsidy across selected blocks.	mining/subsidy_mean?a=BTC&i;=10m
revenue_mean	Average miner revenue across selected blocks.	mining/revenue_mean?a=BTC&i;=10m

Supply

supply/{metric}

Supply metrics describe scheduled Bitcoin issuance and UTXO-set amount snapshots. They do not represent circulating, liquid, exchange, or lost-coin-adjusted supply.

Endpoint pattern	/v1/metrics/supply/{metric}
Metrics listed	4
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
issuance_rate_mean	Average scheduled issuance pace across the closed interval.	supply/issuance_rate_mean?a=BTC&i;=10m
issued_total	Scheduled issued subsidy through the latest selected block height.	supply/issued_total?a=BTC&i;=10m
utxo_total_amount	Latest UTXO-set total amount snapshot in each closed interval.	supply/utxo_total_amount?a=BTC&i;=10m
unspendable_total_amount	Latest UTXO-set unspendable total amount snapshot in each closed interval.	supply/unspendable_total_amount?a=BTC&i;=10m

UTXO

utxo/{metric}

UTXO metrics describe selected output-set change, value flow, turnover, and spent-age indicators derived from stored Bitcoin block statistics and UTXO-set snapshots.

Endpoint pattern	/v1/metrics/utxo/{metric}
Metrics listed	11
Asset examples	BTC
Intervals	10m, 1h

Supported Parameters

Parameter	Supported values	Applies to
a	BTC	Required
i	10m, 1h	Required
s	UTC milliseconds lower bound	Optional
u	UTC milliseconds upper bound	Optional
limit	Positive row cap	Optional

Metrics

Metric	Description	Example
change_count_actual	Actual change in UTXO count from selected stored block statistics.	utxo/change_count_actual?a=BTC&i;=10m
size_change_bytes_actual	Actual change in UTXO set size from selected stored block statistics.	utxo/size_change_bytes_actual?a=BTC&i;=10m
set_output_count	Latest UTXO set output count snapshot in each closed interval.	utxo/set_output_count?a=BTC&i;=10m
block_spent_value	UTXO-set aggregate spent value from selected canonical blocks.	utxo/block_spent_value?a=BTC&i;=10m
block_created_value	UTXO-set aggregate non-coinbase created output value.	utxo/block_created_value?a=BTC&i;=10m
block_unspendable_value	Signed UTXO-set unspendable value delta from selected blocks.	utxo/block_unspendable_value?a=BTC&i;=10m
net_created_value	Created output value minus spent value for the interval.	utxo/net_created_value?a=BTC&i;=10m
turnover_ratio	Spent value divided by latest UTXO-set total amount snapshot.	utxo/turnover_ratio?a=BTC&i;=10m
coin_days_destroyed	Spent output value in BTC multiplied by output age in days.	utxo/coin_days_destroyed?a=BTC&i;=10m
spent_value_total	Total spent prevout value from block verbosity 3 data.	utxo/spent_value_total?a=BTC&i;=10m
average_spent_age_days	Value-weighted average spent output age in days.	utxo/average_spent_age_days?a=BTC&i;=10m