

Cryptometer API Endpoints - Tiered Scoring System

Overview

This document outlines a comprehensive scoring system for the 17 accessible Cryptometer API endpoints, organized into tiers based on their relevance and importance to trading decisions. The scoring system is designed to provide a balanced evaluation that contributes 50% to the total score, complementing the 30% from KingFisher and 20% from RiskMetric.

Scoring Distribution

- **KingFisher:** 30% of total score (0-10 points)
- **RiskMetric:** 20% of total score (0-5 points)
- **Cryptometer:** 50% of total score (0-15 points)

Cryptometer Endpoint Tiers

Tier 1: Primary Indicators (60% of Cryptometer Score)

These endpoints provide the most critical market signals and directly influence trading decisions.

Endpoint	Weight	Max Points	Rationale
LS Ratio	15%	2.25	Direct measure of market sentiment through long/short positioning
Total Liquidation Data	15%	2.25	Critical risk indicator showing market leverage and potential cascade events
Trend Indicator V3	10%	1.5	Overall market trend and buy/sell pressure

Endpoint	Weight	Max Points	Rationale
Volatility Index	10%	1.5	Key risk and opportunity measurement
AI Screener (Full)	10%	1.5	AI-driven trade recommendations based on historical performance

Tier 1 Total: 60% of Cryptometer score (9 points)

Tier 2: Secondary Indicators (30% of Cryptometer Score)

These endpoints provide important supporting data that enhances trading decisions.

Endpoint	Weight	Max Points	Rationale
OHLCV Candles	8%	1.2	Foundation for technical analysis patterns
Merged Buy/Sell Volume	6%	0.9	Volume imbalance indicator
Liquidity Lens	6%	0.9	Market depth and capital flow analysis
Large Trades Activity	5%	0.75	Institutional activity indicator
xTrade (Whale Trades)	5%	0.75	Large player movement detection

Tier 2 Total: 30% of Cryptometer score (4.5 points)

Tier 3: Supplementary Data (10% of Cryptometer Score)

These endpoints provide contextual information that complements the primary and secondary indicators.

Endpoint	Weight	Max Points	Rationale
Tickerlist Pro	3%	0.45	Comprehensive market overview
Volume Flow	2%	0.3	Capital movement between assets
Rapid Movements	2%	0.3	Momentum detection

Endpoint	Weight	Max Points	Rationale
AI Screener Analysis	1%	0.15	Symbol-specific AI analysis
Forex Rates	1%	0.15	Currency conversion context
Market List	0.5%	0.075	Available trading pairs
Cryptocurrency Info	0.5%	0.075	Asset metadata

Tier 3 Total: 10% of Cryptometer score (1.5 points)

Scoring Methodology

Tier 1 Endpoints

LS Ratio (15% - 2.25 points)

- **Data Point:** Long/Short ratio
- **Scoring:**
 - Extreme values (>2.0 or <0.5): 2.25 points (strong signal)
 - Moderate values (1.7-2.0 or 0.5-0.7): 1.5 points
 - Neutral values (0.7-1.7): 0.75 points
- **Direction:**
 - LS Ratio > 1.7 : Long signal
 - LS Ratio < 0.7 : Short signal
 - LS Ratio 0.7-1.7: Neutral

Total Liquidation Data (15% - 2.25 points)

- **Data Point:** 24h liquidation ratio (longs/shorts)
- **Scoring:**
 - High imbalance (>3.0 or <0.33): 2.25 points
 - Moderate imbalance (2.0-3.0 or 0.33-0.5): 1.5 points
 - Low imbalance (1.0-2.0 or 0.5-1.0): 0.75 points
- **Direction:**
 - More shorts liquidated: Long signal
 - More longs liquidated: Short signal

Trend Indicator V3 (10% - 1.5 points)

- **Data Point:** Trend score (0-100)
- **Scoring:**

- Extreme trend (0-20 or 80-100): 1.5 points
- Strong trend (20-30 or 70-80): 1.0 points
- Moderate trend (30-40 or 60-70): 0.5 points
- Neutral (40-60): 0.25 points
- **Direction:**
- Score < 40: Short signal
- Score > 60: Long signal
- Score 40-60: Neutral

Volatility Index (10% - 1.5 points)

- **Data Point:** Volatility value
- **Scoring:**
- High volatility (>1.5): 1.5 points
- Medium volatility (1.0-1.5): 1.0 points
- Low volatility (<1.0): 0.5 points
- **Direction:** Determined by price change direction

AI Screener (10% - 1.5 points)

- **Data Point:** Recent AI trades for the symbol
- **Scoring:**
- Strong signal (multiple consistent trades): 1.5 points
- Moderate signal (few trades or mixed results): 0.75 points
- No trades: 0 points
- **Direction:** Based on side of most recent trades

Tier 2 Endpoints

OHLCV Candles (8% - 1.2 points)

- **Data Points:** Multiple technical indicators derived from OHLCV data
- RSI (30% of OHLCV score)
- MACD (30% of OHLCV score)
- Bollinger Bands (20% of OHLCV score)
- Moving Averages (20% of OHLCV score)
- **Scoring:** Composite score based on technical indicators
- **Direction:** Based on technical indicator consensus

Merged Buy/Sell Volume (6% - 0.9 points)

- **Data Point:** Buy/Sell volume ratio
- **Scoring:**

- Strong imbalance (>1.5 or <0.67): 0.9 points
- Moderate imbalance (1.2-1.5 or 0.67-0.83): 0.6 points
- Balanced (0.83-1.2): 0.3 points
- **Direction:**
- Buy > Sell: Long signal
- Sell > Buy: Short signal

Liquidity Lens (6% - 0.9 points)

- **Data Point:** Netflow value
- **Scoring:**
- Strong netflow ($>\$5M$ or $<-\$5M$): 0.9 points
- Moderate netflow ($\$1M-\$5M$ or $-\$5M$ to $-\$1M$): 0.6 points
- Low netflow ($-\$1M$ to $\$1M$): 0.3 points
- **Direction:** Based on netflow direction

Large Trades Activity (5% - 0.75 points)

- **Data Point:** Large trade count and side bias
- **Scoring:**
- High activity with clear bias: 0.75 points
- Moderate activity or mixed bias: 0.5 points
- Low activity: 0.25 points
- **Direction:** Based on dominant side of large trades

xTrade (Whale Trades) (5% - 0.75 points)

- **Data Point:** Recent whale trades
- **Scoring:**
- Multiple whale trades in same direction: 0.75 points
- Few whale trades or mixed directions: 0.5 points
- No recent whale trades: 0.25 points
- **Direction:** Based on dominant side of whale trades

Tier 3 Endpoints

These endpoints contribute smaller weights to the overall score and are scored based on their specific metrics, with detailed scoring rules for each.

Implementation Notes

1. **Normalization:** All endpoint scores are normalized to their weighted maximum to ensure proper contribution to the total score.
2. **Direction Determination:** Each endpoint contributes not only to the score magnitude but also to the trading direction (long/short).
3. **Score Aggregation:**
 4. Individual endpoint scores are calculated
 5. Scores are weighted according to their tier and importance
 6. Weighted scores are summed to produce the Cryptometer component score (0-15 points)
 7. This score contributes 50% to the final trading decision
8. **Minimum and Maximum Values:**
 9. Minimum Cryptometer score: 0 points
 10. Maximum Cryptometer score: 15 points
 11. This range complements the KingFisher (0-10 points) and RiskMetric (0-5 points) components
12. **Fallback Mechanism:**
 13. If certain endpoints are unavailable, their weights are redistributed proportionally within their tier
 14. If an entire tier is unavailable, its weight is redistributed to the remaining tiers

Final Score Calculation

The final score for a trading pair is calculated as:

$$\text{Final Score} = (\text{KingFisher Score} / 10 \times 30\%) + (\text{RiskMetric Score} / 5 \times 20\%) + (\text{Cryptometer Score} / 15 \times 50\%)$$

This produces a final score between 0 and 1, where: - Scores > 0.6 indicate strong trading signals - Scores 0.4-0.6 indicate neutral conditions - Scores < 0.4 indicate weak trading conditions

The direction (long/short) is determined by the weighted consensus of all components.