

**Fractal Volatility Index for AMD : 0.595. Market Wide FVI:0.478**  
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



## Global Geopolitical Volatility



Red: High Risk FVI zone, Orange: Medium Risk FVI zone, Green: Low Risk FVI zone

## Verv Stock Analysis Report: Advanced Micro Devices Inc AMD FVI 0.595

Analysis Period: 2021-06-17 to 2026-06-17

### Global Geopolitical Fractal Volatility (Gold, Forex, TWI (Tariffs) and GHG Emissions)

FVI\_GOLD: 0.593608 => Moderate gold volatility, likely reflecting investor caution

FVI\_FX: 0.434301 => Low FX volatility; currency markets stable for now

FVI\_TWI: 0.469352 => Moderate TWI volatility; minor export/import fluctuations

GHG CV: 0.223036 => Moderate emissions volatility; sector-level uncertainty exists

Primary Risk Driver: Gold volatility is a good proxy for global geopolitical risk. 0.593608.

The Fractal Volatility Index (FVI) is scaled between 0 and 1 reflecting the stock's overall volatility. A higher score indicates greater unpredictability and market instability.

Unlike traditional volatility indicators like VIX or Beta, FVI does not track short-term fluctuations—it detects hidden instability before it manifests in price swings.

FVI is a composite score that incorporates Lyapunov Exponent, Hurst Exponent, and Detrended Fluctuation Analysis (DFA).

### Breakout Probability Score (BPS): -0.120

Breakout Probability Score (BPS) quantifies price momentum likelihood:  $BPS > 1.5$  suggests high breakout potential, while  $BPS < 0.5$  indicates consolidation.

( $BPS > 1.5$  High breakout potential - Strong momentum, watch for confirmation.)

( $BPS 0.5 - 1.5$  Moderate breakout likelihood - Possible move, monitor closely.)

( $BPS < 0.5$  Low breakout probability - Likely consolidation or range-bound.)

Request ID: FVI

Account ID: WeeklyReport

### Fractal & Statistical Analysis

FVI Score: 0.595 (Fractal Volatility Index FVI)

DFA Result: 0.4765 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0172 (Measures chaos and predictability)

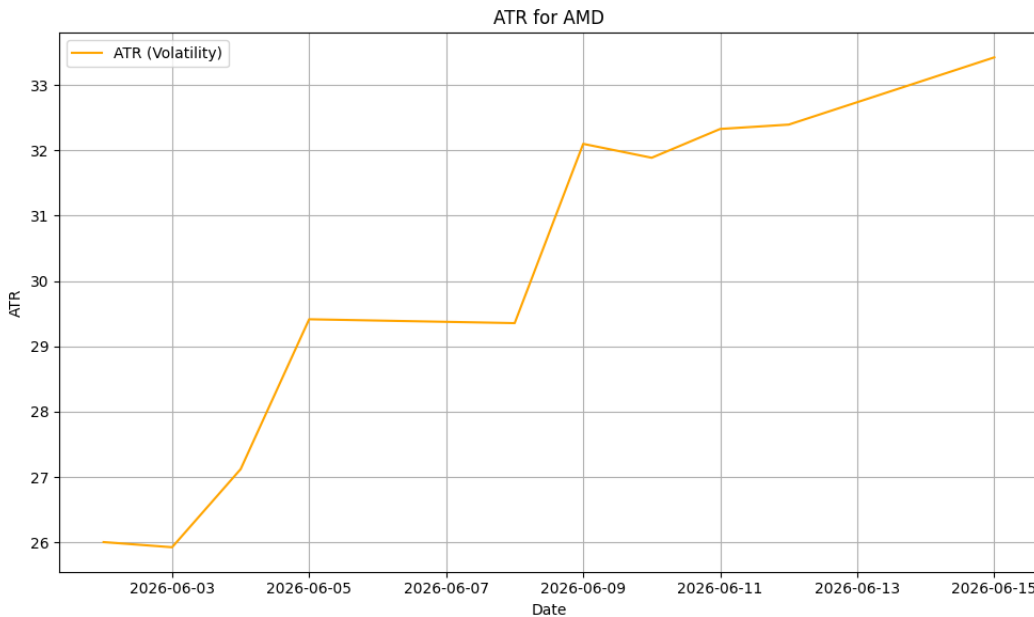
Hurst Exponent: 0.5261 (Indicates trending or mean-reverting behavior)

### Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 547.26 is within the Bollinger Bands range (414.26 - 562.00).

Latest ATR: 33.4228

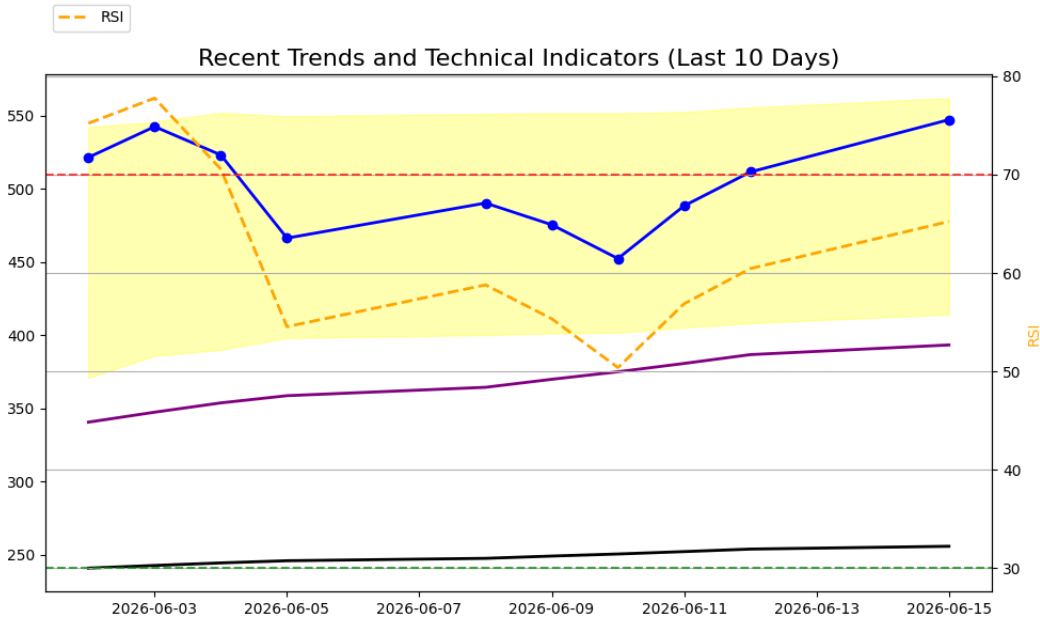
### Average True Range (ATR)



The ATR measures the recent price volatility of a stock, calculating the average range between its high and low prices over a given period (usually 14 days). A higher ATR indicates greater market volatility, and a lower ATR indicates less volatility.

Low ATR (below 2): Stable stock, Moderate ATR (2-5): Mild volatility, High ATR (above 5): Highly volatile stock

# Technical Indicators



Left y axis - Stock Price. Right y axis - RSI range values (30 - 70)

**Close Price**(blue line with circles) - Key indicator of the stock's price action and is often used to identify trends or patterns. A rising close price generally indicates an upward trend, while a falling close price shows a downward trend.

**SMA\_50 and SMA\_200** - (purple line SMA\_50, black line SMA\_200) Simple Moving Averages (SMA) calculated over 50 and 200 periods. Helps identify the direction of stock price trend.

**Bollinger Bands** - (shaded in yellow): Bollinger Bands consists of upper, middle and lower prices. The middle line is the moving average. Price reaching the upper band can indicate an overbought condition, suggesting the stock might be due for a pullback. Price touching the lower band could indicate an oversold condition, suggesting a potential buying opportunity. When the price moves outside the bands, it may indicate extreme conditions.

**Relative Strength Index RSI** - (orange dotted line): The RSI is a momentum oscillator that measures the speed and change of price movements. An RSI above 70 suggests the stock is overbought and might be due for a pullback. An RSI below 30 suggests the stock is oversold and might be due for a rebound. An RSI in between indicates a more neutral market condition.

# AI-Generated Market Insights

## Investment Report:

--- INVESTMENT REPORT ---

### 1. Volatility & Breakout Potential

- AMD's stock appears to be in a regime of relative stability with a Lyapunov of 0.017, indicating a low level of chaos and instability.
- The stock's FVI of 0.595 suggests a moderate level of volatility, which could be a mix of acceleration and noise.
- The Bollinger Bands are currently within a reasonable range, indicating no strong breakout signal.
- The volume change of 33.08% does confirm price moves, suggesting a stable trend.

### 2. Market Sentiment

- The large volume suggests institutional-driven behavior, indicating strong market sentiment towards AMD.

### 3. Geopolitical Risk Assessment

- The elevated levels of Gold, FX, and TWI FVI indicate a high level of global stress, which could impact AMD, especially given its low sector sensitivity score.
- AMD, being a technology company, may have a high level of globalization and supply-chain dependency, which could expose it to tariff risks.

### 4. Sector and Supply Chain Exposure

- As a tech company, AMD is likely dependent on Asia-sourced components, such as semiconductors, and thus would be sensitive to disruptions in the supply chain.
- However, AMD's low GHG score suggests that it has a lower exposure to energy price shocks and emissions risk.

--- STRATEGY RECOMMENDATION ---

Given the current market conditions and AMD's performance metrics, the optimal strategy would be a cautious trend-following approach. The stock's BPS and FVI pattern suggests a possible breakout, but given the high global stress indicators and potential supply-chain risks, investors should proceed with caution.

--- FINAL TAKEAWAY ---

"AMD shows moderate volatility with potential for a breakout, but global stress indicators and supply-chain risks suggest a cautious approach. Trend-following strategy recommended."

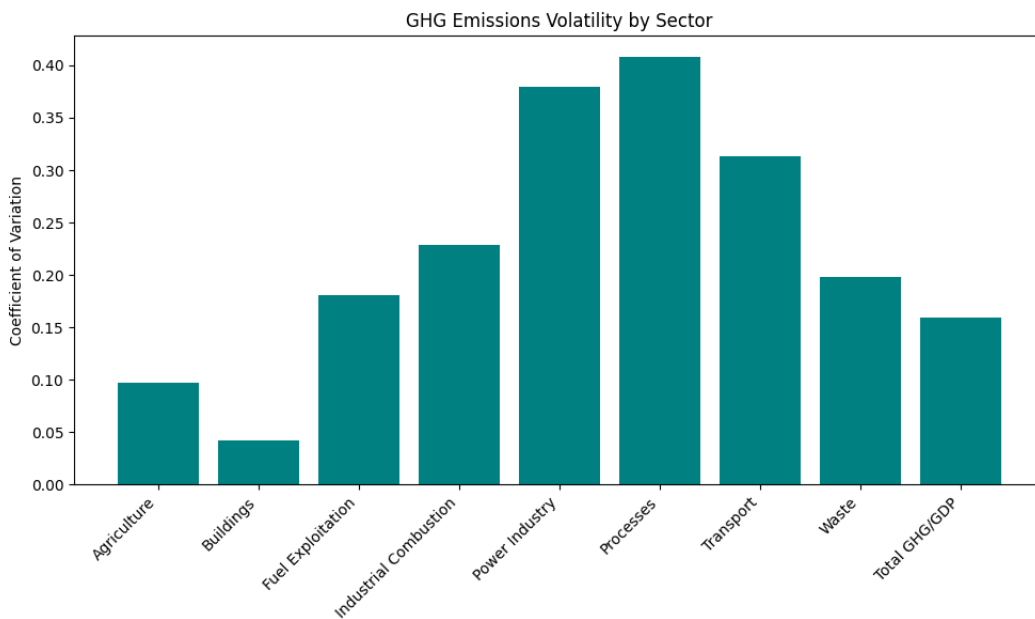
Market Capitalization: 834166325000, Industry: SEMICONDUCTORS, Latest Volume: 33482425, Description: Advanced Micro Devices Inc, Sector: TECHNOLOGY, Price to Book: 12.94, Trailing PE: 169.39, Forward PE: 72.99, Enterprise to Ebitda: 102.11, Enterprise to Revenue: 22.05, Profit Margins: 0.134

The trading volume has changed by 33.08% over the past week, indicating potential shifts in market sentiment. Please factor this into the volatility and risk analysis.

Beta measures stock volatility relative to the overall market: 2.49

Beta of 2.49 suggests high volatility compared to the market.

### Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for the Technology sector.

Disclaimer: The Fractal Volatility Index (FVI) measures structural market instability, not short-term price direction. High FVI (red dot) does not necessarily indicate a price breakout—rather, it signals unpredictable price behavior and potential structural shifts. While market instability can precede significant moves in either direction, Verv Stock Reports do not predict price trends but offer insight into underlying volatility patterns. Investors should interpret FVI alongside fundamental and technical analysis before making decisions.

# Stock Market Price Credibility Report

Analysis based on current global macroeconomic and geopolitical information.

Market\_Price\_Credibility\_Analysis:

```
{  
  "Final_Score": 0.402,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": 0.084,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "Fiscal policy: now with 30% more denial!"  
}
```

The NRD of 0.7 suggests a significant disconnect between economic narratives and the underlying fiscal, monetary, and geopolitical realities. The rising U.S. debt and deficit levels, along with changes in U.S. Treasury bond yields and issuance, indicate a challenging economic environment. Reports of declining foreign demand for U.S. bonds and the use of tariffs and sanctions as economic tools further contribute to this disconnect.

Central bank interventions, such as rate cuts and quantitative easing, are often seen as necessary measures to stimulate the economy, but they can also distort market signals and create imbalances. The divergence between inflation and official interest rate policy also raises concerns about the effectiveness of monetary policy.

Meanwhile, the influence of BRICS+ countries and the trend towards de-dollarization could potentially undermine the U.S. dollar's dominance in the global economy. Gold volatility and geopolitical hedging also suggest that investors are seeking safe havens amid the uncertainty.

The Trumpery Alert is set to true, indicating that manipulative or performative policymaking is evident. The Satirical Summary, "If you believe this is market forces, we've got a bridge to sell you," underscores the skepticism towards the official narrative and the perceived manipulation of economic indicators.

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## Deception Risk:

Between 0 and .2, markets appear fundamentally sound, no price distortion.

Between .2 and .4 there may be some irrationality or manipulation. Caution is advised.

Between .4 and .6 there are signals of disconnect between narratives and reality.

Between .6 and .8 distortions mean possible financial gaslighting.

Between .8 and 1 signals a confidence scam - you are being sold a bridge.

## What Price Credibility Sell You a Bridge Index captures:

Price to Volume Divergence PVD.' When price rises while volume drops is suspicious behavior.

A Narrative Reality Dislocation Index NRDIndex is an AI score for disconnect between corporate statements and underlying fundamentals.

A Volatility Persistence Score VPI. When volatility indicators stay low despite geopolitical/economic chaos.

The Macro Score includes Tariff Impact Denial. High tariffs plus high exposure plus rising stock. This may be a trumpery illusion alert.

Treasury Detector TFD Liquidity Masking Metric. Fed/Treasury injections may be affecting retail activity or debt spreads.

The Media Sentiment Mismatch is included. This is where news tone is contrary to actual market data (e.g. bullish despite bond collapse).

Note: Trumpery derives from a French word meaning to deceive, in many dictionaries showy but worthless.

\_\_\_\_\_ **END OF REPORT** \_\_\_\_\_