

Fractal Volatility Index for AMD : 0.604. 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 0.604

Analysis Period: 2021-04-22 to 2026-04-22

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): 1.420

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: 0.604 (Fractal Volatility Index FVI)

DFA Result: 0.5154 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0169 (Measures chaos and predictability)

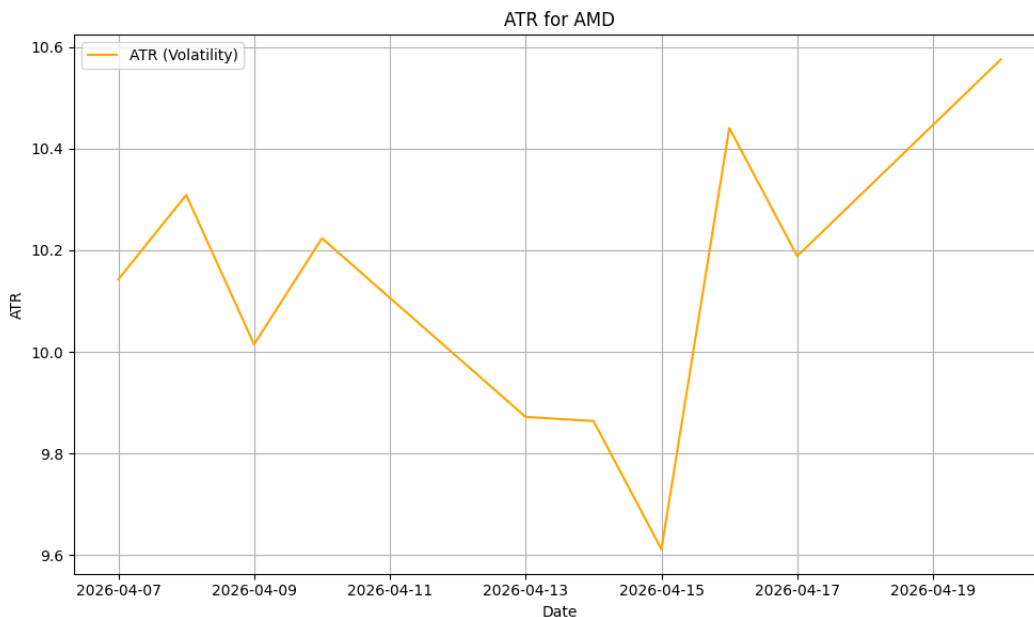
Hurst Exponent: 0.5245 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 274.95 is within the Bollinger Bands range (177.19 - 283.62). On a 10-day average basis, the mean closing price 252.66 is also above the mean Bollinger Upper Band 250.30, reinforcing the bullish trend.

Latest ATR: 10.5758

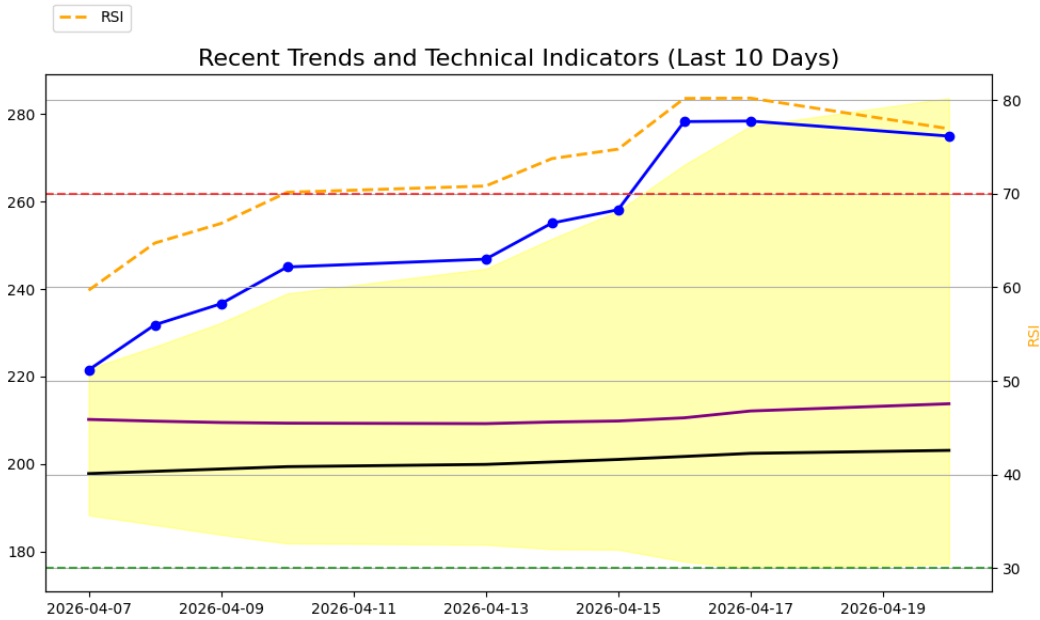
Average True Range (ATR)



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 FVI of 0.604 suggests a strong level of volatility. Lyapunov's measure of 0.017, however, indicates a relatively stable system compared to the market-wide values.
- The Bollinger Bands are currently expanding, indicating increased market volatility. However, the stock's volume change of 52.90% confirms the bullish price trend.

2. Market Sentiment

- The significant volume suggests institutional-driven behavior, which is typically a bullish sign. The lack of a strong breakout signal, however, suggests that sentiment may be mixed.

3. Geopolitical Risk Assessment

- The elevated market-wide FVI indicators, including Gold, FX, and TWI, suggest a high level of global stress. However, the technology sector's low GHG impact score of 0.048 indicates a relatively low level of sectoral emissions risk exposure.
- AMD, as a technology company, may have some exposure to global trade disruptions. However, it's unclear how significant this risk is without more detailed supply chain data.

4. Sector and Supply Chain Exposure

- AMD operates in the technology sector, which is known for its global inputs and dependencies. Therefore, it may have some exposure to Asia or U.S. risk factors.
- However, AMD's specific supply chain risks are not clear without more detailed data. It's possible that the company is exposed to risks related to semiconductors and other tech components sourced from Asia.

--- STRATEGY RECOMMENDATION ---

- AMD appears to be in a consolidation phase, with the stock's price within the Bollinger Bands range.
- Given the high FVI and volume change, a trend-following strategy may be optimal at this time.
- The BPS of 1.420 suggests a moderate breakout potential, but the lack of a strong breakout signal indicates that this potential may be fading.

--- FINAL TAKEAWAY ---

"AMD displays strong volatility with confirmed bullish trend—trend-following strategy recommended. However, be aware of potential geopolitical risks and supply chain disruptions."

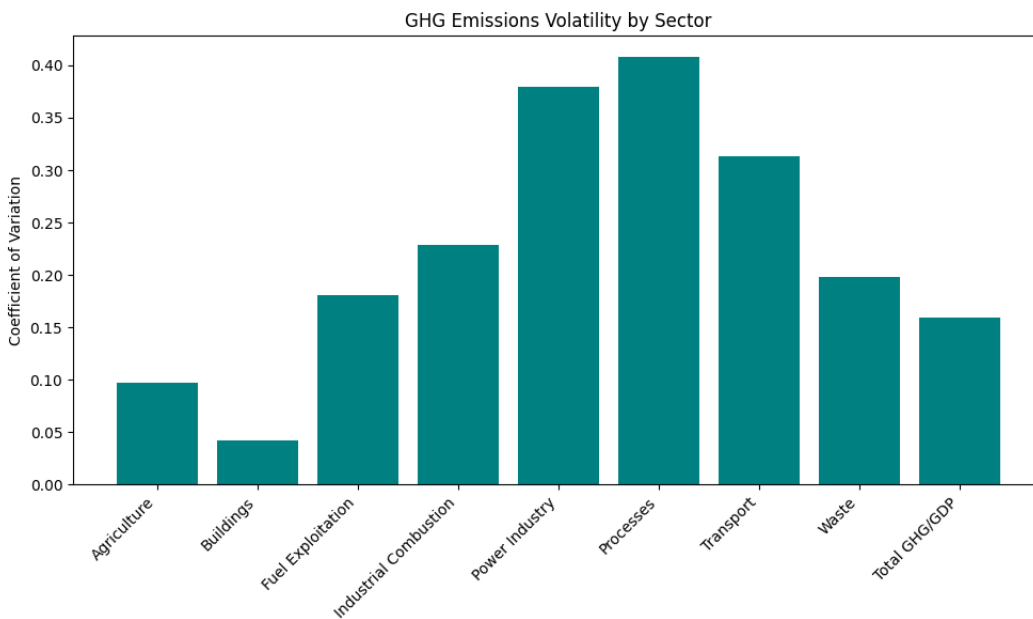
Market Capitalization: 448281477000, Industry: SEMICONDUCTORS, Latest Volume: 34833859, Description: Advanced Micro Devices Inc, Sector: TECHNOLOGY, Price to Book: 7.12, Trailing PE: 105.34, Forward PE: 40.98, Enterprise to Ebitda: 60.7, Enterprise to Revenue: 12.75, Profit Margins: 0.125

The trading volume has changed by 52.90% 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: 1.96

Beta of 1.96 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": 0.416,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": 0.156,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "If you believe this rally, we've got beachfront property on the moon."  
}
```

Explanation:

The NRDl is relatively high at 0.7, indicating a significant disconnect between economic narratives and underlying fiscal, monetary, and geopolitical realities. This is due to several factors.

Rising U.S. debt and deficit levels, coupled with declining foreign demand for U.S. bonds, suggest a potential future issue with financing the U.S. government's debt. Despite this, market narratives often neglect the long-term implications of these trends.

Changes in U.S. Treasury bond yields and issuance, along with central bank interventions such as rate cuts and quantitative easing, have distorted the price discovery mechanism in the bond market. This has led to an artificial suppression of bond yields, which does not reflect the true risk associated with U.S. government debt.

The use of tariffs and sanctions as economic tools has introduced further uncertainties and potential instabilities into the global financial system. However, these geopolitical risks are often downplayed in market narratives.

Inflation is rising faster than official interest rate policy, which could lead to a loss of purchasing power and real income for consumers. Despite this, the narrative often focuses on the benefits of low interest rates for borrowers and ignores the potential negative impacts of inflation.

BRICS+ influence and de-dollarization trends are challenging the dominance of the U.S. dollar in the global financial system. However, these trends are often overlooked in market narratives.

Gold volatility and geopolitical hedging suggest that investors are becoming increasingly concerned about geopolitical risks and the stability of the global financial system. Despite this, market narratives often focus on short-term price movements rather than long-term trends.

The Trumpery_Alert is set to true, indicating that manipulative or performative policymaking is evident. The Satirical_Summary reflects this, suggesting that the market forces at play may not be entirely organic or free from manipulation.

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** _____