

## Overview

Palladium LLC, is a registered investment adviser and was founded in October 2011.

As of December 2020, \$805 Million Assets Under Management.

Independent, employee-owned firm.

Palladium is an investment manager with a focus on transparency and risk management.

### Equity Market Capitalization for Palladium Opportunistic Growth

Category	Weight
Large Cap	51.94%
Mid Cap	36.92%
Small Cap	11.14%

### Stock Sectors for Palladium Opportunistic Growth

Category	Weight
Basic Materials	4.21%
Consumer Cyclical	13.76%
Financial Services	9.22%
Real Estate	3.65%
Consumer Defensive	4.56%
Healthcare	16.76%
Utilities	2.12%
Communication Services	8.65%
Energy	2.04%
Industrials	9.80%
Technology	25.23%

## Key Attributes

Diversified Equity Risk

Liquidity & Transparency

Capital Appreciation

Low Expenses & Fees

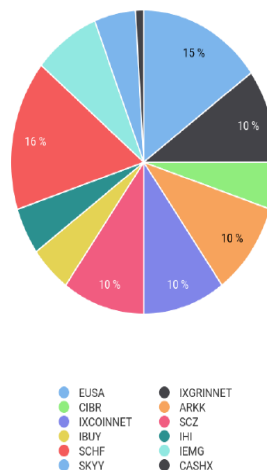
## Strategy Description

- The Opportunistic Growth Strategy seeks to maximize capital appreciation through significant equity exposure.
- This strategy is typically appropriate for an investor with a long-term investment horizon and a high tolerance for risk, seeking significant capital appreciation.
- The portfolio may be concentrated in a smaller number of holdings and sectors.

## Asset Allocation

### Palladium Opportunistic Growth

Ticker	Name	Allocation
EUSA	iShares MSCI USA Equal Weighted ETF	15.00%
IXGRINNET	Risk Managed Gold Index - Net	10.00%
CASHX	Cash	1.00%
CIBR	First Trust NASDAQ Cybersecurity ETF	5.00%
ARKK	ARK Innovation ETF	10.00%
IXCOINNET	Crypto Opportunity Index - Net	10.00%
SCZ	iShares MSCI EAFE Small-Cap ETF	10.00%
IBUY	Amplify Online Retail ETF	5.00%
IHI	iShares US Medical Devices ETF	5.00%
SCHF	Schwab International Equity ETF	16.00%
IEMG	iShares Core MSCI Emerging Markets ETF	8.00%
SKYY	First Trust Cloud Computing ETF	5.00%



## PCT PORTFOLIO SEGMENTS / CONSTITUENTS

### 26.0% Equity: Low-Cost, Systematic

Systematic U.S. Equity

Systematic Non-U.S. Equity

### 20.0% Alternative: Anticipated Risk Mitigation with Alpha Opportunities

Risk Managed Gold

Risk Managed Crypto

### 54.0% Opportunistic: Reflects Ideas Based on 12-24 Month Forecasts

Emerging Market Equity

Small Cap International

Disruptive Innovation

E-Commerce

Cyber Security

Cloud Computing

Medical Instruments

Source: Morningstar.

\*Holdings are subject to change and may be different than at the time of this report or based on program constraints.

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Palladium LLC is a Registered Investment Adviser. **Approved for End Client Use.**

## Portfolio Characteristics

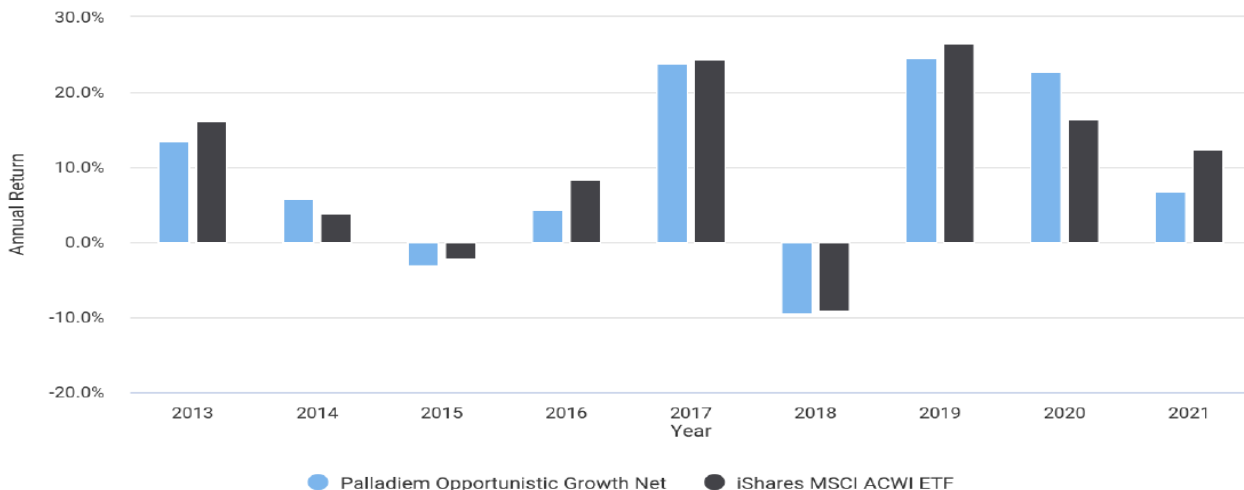
Holdings Based Style Analysis for Palladium Opportunistic Growth							
Ticker	Name	Category	Weight	Yield	Fees	P/E	
EUSA	iShares MSCI USA Equal Weighted ETF	Large Blend	15.00%	1.11%	0.15%	23.67	
IXGRINNET	Risk Managed Gold Index - Net	ALternative Beta	10.00%				
CASHX	Cash	Cash	1.00%	0.01%			
CIBR	First Trust NASDAQ Cybersecurity ETF	Technology	5.00%	0.20%	0.60%	28.05	
ARKK	ARK Innovation ETF	Mid-Cap Growth	10.00%		0.75%		
IXCOINNET	Crypto Opportunity Index - Net	Alternative Beta	10.00%				
SCZ	iShares MSCI EAFE Small-Cap ETF	Foreign Small/Mid Blend	10.00%	1.63%	0.40%	18.82	
IBUY	Amplify Online Retail ETF	Consumer Cyclical	5.00%	0.48%	0.65%		
IHI	iShares US Medical Devices ETF	Health	5.00%	0.26%	0.42%	37.94	
SCHF	Schwab International Equity ETF	Foreign Large Blend	16.00%	1.95%	0.06%	19.56	
IEMG	iShares Core MSCI Emerging Markets ETF	Diversified Emerging Mkts	8.00%	1.78%	0.11%	16.71	
SKYY	First Trust Cloud Computing ETF	Technology	5.00%	0.16%	0.60%	33.74	
			100.00%	0.84%	0.34%	23.26	

## Growth Chart



The chart represents the growth of a hypothetical investment of \$10,000 in the strategy since inception and reflects the reinvestment of dividends and income. The chart does not represent an actual investment and is not intended to imply future results.

## Annual Returns



Source: Portfolio Visualizer (Model Returns)

• Inception Date (INCEPT): 7/1/2013; † Indicates Partial Year

Benchmark (Bmark): MSCI All Country World Index (ACWI) Net Return. Indices represent asset classes that may be included in the strategy and are presented to provide perspective on the strategy's historical risk, as measured by standard deviation, in relation to these asset classes. You cannot invest directly in an index.

### Risk and Return Metrics (Jul 2013 - Jun 2021)

Metric	Palladium Opportunistic Growth Net	iShares MSCI ACWI ETF
Geometric Mean (monthly)	0.83%	0.91%
Geometric Mean (annualized)	10.46%	11.51%
Volatility (monthly)	3.76%	3.86%
Volatility (annualized)	13.02%	13.38%
Downside Deviation (monthly)	2.40%	2.45%
Max. Drawdown	-19.98%	-21.05%
US Market Correlation	0.96	0.97
Beta (*)	0.95	1.00
Alpha (annualized)	-0.39%	0.00%
R Squared	95.09%	100.00%

### Palladium Opportunistic Growth Net Returns

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2013							5.03%	-2.71%	4.19%	2.93%	1.55%	1.92%	13.42%
2014	-3.46%	4.12%	-0.11%	0.17%	2.07%	2.44%	-1.37%	3.10%	-3.29%	1.90%	1.34%	-0.84%	5.90%
2015	-1.02%	4.36%	-1.23%	1.39%	0.43%	-2.28%	0.25%	-6.33%	-3.12%	6.61%	0.00%	-1.64%	-3.15%
2016	-6.39%	-0.78%	6.70%	0.77%	0.85%	-0.16%	3.89%	-0.32%	0.83%	-2.46%	0.92%	1.03%	4.42%
2017	3.27%	2.72%	1.26%	1.57%	2.04%	0.36%	2.41%	0.57%	1.90%	2.21%	1.48%	1.74%	23.74%
2018	5.77%	-3.69%	-1.27%	-0.04%	1.44%	-0.84%	2.32%	1.41%	-0.17%	-8.50%	1.51%	-7.00%	-9.52%
2019	8.79%	3.04%	1.09%	2.81%	-6.59%	7.22%	-0.33%	-2.68%	2.35%	2.29%	2.30%	2.64%	24.47%
2020	-1.25%	-6.70%	-13.15%	9.90%	4.29%	3.57%	5.94%	6.29%	-1.86%	-0.17%	11.56%	5.02%	22.77%
2021	2.22%	-0.87%	0.06%	1.79%	0.82%	2.52%							6.68%

### iShares MSCI ACWI ETF Returns

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2013							4.58%	-2.29%	5.54%	3.95%	1.55%	2.06%	16.18%
2014	-4.63%	5.20%	0.57%	1.19%	2.01%	1.81%	-1.44%	2.58%	-3.32%	1.21%	1.38%	-2.37%	3.82%
2015	-1.32%	5.51%	-1.46%	2.87%	0.00%	-2.57%	0.82%	-6.81%	-3.44%	7.66%	-0.53%	-2.12%	-2.22%
2016	-5.30%	-1.25%	7.39%	1.34%	0.33%	-0.05%	3.77%	0.34%	0.94%	-1.91%	1.04%	1.96%	8.40%
2017	2.91%	2.51%	1.35%	1.61%	2.21%	0.80%	2.73%	0.40%	1.88%	2.15%	2.02%	1.45%	24.35%
2018	5.70%	-4.48%	-1.50%	0.40%	0.47%	-0.58%	3.07%	0.70%	0.61%	-7.43%	1.59%	-7.21%	-9.12%
2019	8.04%	2.47%	1.58%	3.42%	-6.07%	6.49%	0.07%	-2.21%	2.25%	2.74%	2.34%	3.43%	26.58%
2020	-1.44%	-7.49%	-13.41%	9.83%	5.09%	2.93%	5.36%	6.03%	-2.95%	-2.23%	11.76%	4.69%	16.33%
2021	-0.31%	2.29%	2.85%	4.25%	1.47%	1.26%							12.34%

Source: Portfolio Visualizer

• Inception Date (INCEPT): 7/1/2013; † Indicates Partial Year

**Benchmark (Bmark):** MSCI All Country World Index (ACWI) Net Return. Indices represent asset classes that may be included in the strategy and are presented to provide perspective on the strategy's historical risk, as measured by standard deviation, in relation to these asset classes. You cannot invest directly in an index.

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