

Quartz *adapt*CORE Portfolios

Multi-strategy solution that delivers a blended portfolio of Quartz Strategies defined by full-cycle risk profile.



Strategy Fact Sheet

as of 12/31/2022

quartzpartners.com

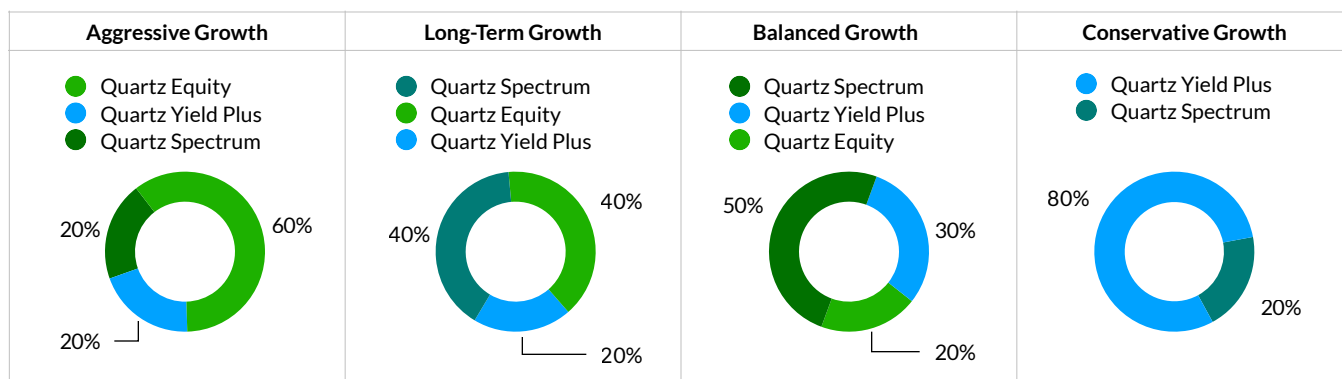
Designed for investors looking to invest in multiple Quartz Partners Strategies in a risk-based blend, the *adapt*CORE Portfolio Series combines multiple Strategies into a single portfolio. With options ranging from conservative growth to aggressive growth*, *adapt*CORE can make it easier to select the appropriate portfolio.

- Tactical asset allocation within each Strategy module
- Rebalanced dynamically
- Alternative to single strategy investments for smaller accounts

Strategy Description: These 4 multi-strategy portfolios are built through allocations to our Quartz Strategies to provide a total portfolio solution and help balance risk and return. Each target-risk portfolio offers an all-inclusive portfolio solution which seeks positive total returns within its asset class and risk constraints. Please refer to the aforementioned individual Quartz Strategies for a full and complete description.

**Over a full market cycle, defined as approximately 5-7 years, the Portfolios seek risk levels consistent with the stated risk profile. However, the underlying strategies' focused investment approach may lead to extended market periods in which the portfolios may reflect a higher or lower risk profile.*

*adapt*CORE Strategy Blends



*adapt*CORE Portfolio Allocation % as of December 31, 2022

	Aggressive Growth	Long-Term Growth	Balanced Growth	Conservative Growth
US Equities	0.0%	0.0%	0.0%	0.0%
Foreign Equities	0.0	0.0	0.0	0.0
High Risk/Return Fixed Income	0.0	0.0	0.0	0.0
High Quality Fixed Income	0.0	0.0	0.0	0.0
Alternatives	0.0	0.0	0.0	0.0
Cash/Equivalents	100%	100%	100%	100%

Prior to April 9, 2018, adaptCORE Balanced Growth was named adaptCORE Moderate Growth. Strategy allocations may vary depending on the custodian selected. The portfolio is dynamically adjusted and will frequently and substantially change. Actual Strategy Blends and Portfolio allocations will vary due to market fluctuations.

*adapt*CORE Benchmarks

	Primary (Blended) Benchmark	Risk Benchmark
Quartz <i>adapt</i> CORE Aggressive Growth	85% MSCI ACWI Index / 15% Bloomberg Barclays US Aggregate Bond Index	Morningstar Aggressive Target Risk Index
Quartz <i>adapt</i> CORE Long-Term Growth	70% MSCI ACWI Index / 30% Bloomberg Barclays US Aggregate Bond Index	Morningstar Moderately Aggressive Target Risk Index
Quartz <i>adapt</i> CORE Balanced Growth	50% MSCI ACWI Index / 50% Bloomberg Barclays US Aggregate Bond Index	Morningstar Moderate Target Risk Index
Quartz <i>adapt</i> CORE Conservative Growth	15% MSCI ACWI Index / 85% Bloomberg Barclays US Aggregate Bond Index	Morningstar Moderately Conservative Target Risk Index

Note: Because of the composite's unconstrained investment strategy, no appropriate benchmark exists. However, benchmarks are shown for reference purposes and as supplemental information.



Quartz *adapt*CORE Portfolios

as of 12/31/2022

Annualized Total Returns %

	adaptCORE Aggressive Growth			adaptCORE Long-Term Growth			adaptCORE Balanced Growth			adaptCORE Conservative Growth		
	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark
3mo	2.21	1.82	8.60	1.70	1.32	7.42	1.54	1.17	5.85	1.37	0.90	3.07
YTD	-11.75	-13.42	-17.46	-12.24	-13.89	-16.59	-11.28	-12.94	-15.48	-7.47	-9.28	-13.70
1 yr	-11.75	-13.42	-17.46	-12.24	-13.89	-16.59	-11.28	-12.94	-15.48	-7.47	-9.28	-13.70
3 yr	6.02	3.97	3.18	6.43	4.38	2.28	5.08	3.05	0.99	1.07	-0.92	-1.54
5 yr	4.87	2.82	4.61	5.19	3.14	3.94	4.51	2.48	2.94	1.82	-0.19	0.96
Inception ¹	4.84	2.78	5.69	5.21	3.15	4.85	4.65	2.62	3.76	2.83	0.80	1.68

¹Inception Dates = May 1, 2015 (adaptCORE Long-Term Growth, Balanced Growth, Conservative Growth); June 1, 2015 (adaptCORE Aggressive Growth)

Annual Total Returns %

	adaptCORE Aggressive Growth			adaptCORE Long-Term Growth			adaptCORE Balanced Growth			adaptCORE Conservative Growth		
	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark	Gross	Net	Blended Benchmark
2015 ²	-2.82	-3.95	-6.08	-1.83	-3.13	-5.20	-2.46	-3.76	-3.87	-2.89	-4.18	-1.62
2016	1.76	-0.25	7.16	2.13	0.11	6.42	2.50	0.47	5.40	6.39	4.29	3.50
2017	14.10	11.87	20.70	14.30	12.06	17.50	13.75	11.52	13.35	9.52	7.36	8.40
2018	-0.87	-2.84	-7.94	0.04	-1.95	-6.48	0.78	-1.21	-4.57	0.11	-1.87	-1.33
2019	7.36	5.24	23.90	6.78	4.67	21.21	6.60	4.57	17.62	5.88	3.79	11.37
2020	13.21	10.98	15.35	13.77	11.54	14.28	10.80	8.63	12.64	2.99	0.95	9.19
2021	19.29	16.95	15.36	20.76	18.40	12.25	18.02	15.71	8.18	8.35	6.21	1.31
2022	-11.75	-13.42	-17.46	-12.24	-13.89	-16.59	-11.28	-12.94	-15.48	-7.47	-9.28	-13.70

²Beginning at inception

Risk Statistics (Since Inception, Gross Returns)

vs Primary Benchmark	adaptCORE Aggressive Growth	Blended Benchmark	adaptCORE Long-Term Growth	Blended Benchmark	adaptCORE Balanced Growth	Blended Benchmark	adaptCORE Conservative Growth	Blended Benchmark
Standard Deviation	9.90	13.50	9.82	11.37	8.97	8.74	6.18	5.00
Beta	0.54	1.00	0.63	1.00	0.75	1.00	0.76	1.00
Alpha	1.29	0.00	1.81	0.00	1.67	0.00	1.39	0.00
Sharpe Ratio	0.43	0.41	0.47	0.39	0.45	0.36	0.33	0.17
vs Risk Benchmark	adaptCORE Aggressive Growth	Risk Benchmark	adaptCORE Long-Term Growth	Risk Benchmark	adaptCORE Balanced Growth	Risk Benchmark	adaptCORE Conservative Growth	Risk Benchmark
Standard Deviation	9.90	15.17	9.82	12.86	8.97	10.15	6.18	7.55
Beta	0.48	1.00	0.56	1.00	0.65	1.00	0.58	1.00
Alpha	1.06	0.00	1.50	0.00	1.25	0.00	0.33	0.00
Sharpe Ratio	0.43	0.44	0.47	0.43	0.45	0.42	0.33	0.39

DEFINITIONS

Alpha: a measure of the difference between a fund's actual returns and its expected performance, given its level of risk as measured by beta. **Beta:** a measure of the volatility, or systematic risk, of a security or a portfolio in comparison to the market as a whole. **Beta:** a measure of the volatility, or systematic risk, of a security or a portfolio in comparison to the market as a whole. **Standard deviation:** a measure of the dispersion of a set of data from its mean. It is designed to gauge the historical risk of an investment in terms of its past volatility. **Sharpe Ratio:** the average return earned in excess of the risk-free rate per unit of volatility or total risk. **MSCI ACWI Index:** a market capitalization weighted index designed to provide a broad measure of equity-market performance throughout the world. The MSCI ACWI is maintained by Morgan Stanley Capital International (MSCI), and is comprised of stocks from both developed and emerging markets. **Bloomberg Barclays Capital U.S. Aggregate Bond Index:** comprised of approximately 6,000 publicly traded bonds including U.S. Government, mortgage-backed, corporate, and Yankee bonds with an approximate average maturity of 10 years. The **Morningstar Target Risk Index** family is designed to meet the needs of investors who would like to maintain a target level of equity exposure through a portfolio diversified across equities, bonds and inflation-hedged instruments. The Morningstar Aggressive Target Risk Index seeks approximately 90% exposure to global equity markets. The Morningstar Moderately Aggressive Target Risk Index seeks approximately 80% exposure to global equity markets. The Morningstar Moderate Risk Index seeks approximately 60% exposure to global equity markets. The Morningstar Moderately Conservative Risk Index seeks approximately 40% exposure to global equity markets.

Investors should carefully consider the underlying funds' fees, expenses, objectives and risks carefully before investing. Quartz Partners Investment Management ("Quartz") puts forth its best effort to achieve the objectives of its strategies. However, there is no guarantee that the objectives will be achieved. An Account's return and principal will fluctuate so that the Account, when redeemed, may be worth more or less than the amount in the Account at or subsequent to the effective date of the Investment Management Agreement. All results are expressed in US dollars and reflect reinvestment of dividends, capital gains, and other earnings as well as the deduction of trading or other expenses incurred. Performance reflects the gross return of the composite reduced by the maximum annual fee of 2%. Actual fees paid and performance may vary based on factors including account size, custodian, contributions and withdrawals, which may cause your returns to differ from those listed in this report. In particular, accounts held at variable annuities and/or fund families will have performance that frequently deviates from the listed data due to fees and investment options. Please contact Quartz or your custodian for your specific performance information. Quartz strategies may involve above-average portfolio turnover, which could negatively impact the net after-tax gain experienced by an individual client. Performance results do not reflect the impact of taxes. Investments in the programs are subject to investment and manager risk, which carry the potential for a loss of principal. Tactical management strategies do not protect against losses in declining markets and there is no guarantee that the strategy performance will meet or exceed the listed benchmark. Quartz's risk management process includes an effort to monitor and management risk, but should not be confused with and does not imply low risk. High yield bonds may be subject to greater market fluctuations, risk of default or loss of income and principal than higher rated securities. The benchmarks referenced herein have not been selected to represent an appropriate benchmark with which to compare a client's performance, but rather are disclosed to allow for comparison of the client's performance to that of certain well-known and widely recognized indices. Indexes are unmanaged, do not incur management fees, costs and expenses, and cannot be invested in directly. Quartz is an investment adviser registered with the SEC under the Investment Advisers Act of 1940. SEC registration does not constitute an endorsement of the firm by the SEC nor does it indicate that the advisor has attained a particular level of skill or ability. Quartz's Form ADV Part 2: Firm Brochure and other account documentation are available upon request. Quartz may pay a portion of the annual advisory fee to a solicitor who is responsible for introducing an investor to Quartz. Quartz claims compliance with the Global Investment Performance Standards (GIPS®). A complete list and description of the firm's composites and composite reports that adhere to the GIPS® standards are available by emailing info@quartzpartners.com. GIPS® is a registered trademark of CFA Institute. CFA Institute does not endorse or promote this organization, nor does it warrant the accuracy or quality of the content contained herein.