

Market-Linked Products Underliers

Russell 2000® Index/Nasdaq-100® Index

Market-Linked Products, considered complex investments, may be linked to the performance of more than one underlying asset, such as the Russell 2000® Index and the Nasdaq-100® Index (whichever is lesser performing). Dividends paid on the underliers are not passed through to the Market-Linked Product. If held to maturity, any potential coupon payments or gains will be paid out based on the lesser performing index, as detailed in the offering documents. Additionally, your statement value will reflect any upward or downward movements in volatility of these indices.

Russell 2000® Index/Nasdaq-100® Index – historical looks at gains & losses

The chart below illustrates the **number of times** the lesser performing index's return, measured from the beginning to the end of different time periods within the past 35 years, landed within various return ranges.

	Total Rolling Periods	Total Gains	Total Losses	0 to -5%	-6 to -10%	-11 to -15%	-16 to -20%	-21 to -25%	-26 to -30%	-31 to -35%	-36 to -40%	< -40%	0% to 10%	11 to 20%	21 to 30%	31 to 40%	> 40%
1-Yr	409	233	176	44	30	24	14	15	13	8	12	16	125	74	23	8	3
3-Yr	385	306	79	6	9	6	11	7	7	6	3	24	32	63	56	64	91
5-Yr	361	275	86	14	12	20	5	9	1	9	1	15	21	21	17	38	178
7-Yr	337	301	36	2	1	3	6	5	2	6	0	11	5	15	32	28	221
10-Yr	301	272	29	1	2	1	1	1	2	3	4	14	2	6	4	3	257

The chart below illustrates the **percentage of times**¹ (based on total rolling periods) the lesser performing index's return, measured from the beginning to the end of different time periods within the past 35 years, landed within various return ranges.

	Total Rolling Periods	Total Gains	Total Losses	0 to -5%	-6 to -10%	-11 to -15%	-16 to -20%	-21 to -25%	-26 to -30%	-31 to -35%	-36 to -40%	< -40%	0% to 10%	11 to 20%	21 to 30%	31 to 40%	> 40%
1-Yr	409	57%	43%	11%	7%	6%	3%	4%	3%	2%	3%	4%	30%	18%	6%	2%	1%
3-Yr	385	79%	21%	2%	1%	2%	3%	2%	2%	2%	1%	6%	9%	14%	15%	17%	24%
5-Yr	361	77%	23%	4%	3%	6%	1%	2%	0%	3%	0%	4%	6%	6%	5%	11%	49%
7-Yr	337	89%	11%	1%	0%	1%	2%	1%	1%	2%	0%	3%	2%	5%	8%	8%	66%
10-Yr	301	90%	10%	0%	1%	0%	0%	1%	1%	1%	1%	5%	1%	2%	1%	1%	85%

Source: Bloomberg. The charts above represent various rolling periods in the past 35 years with monthly observations commencing on December 31, 1987 and ending on December 30, 2022. The Russell 2000® Index is an unmanaged group of securities and considered to be representative of U.S small cap companies, in general. The Nasdaq-100® Index is an unmanaged group of securities considered to be representative of the global large-cap growth market in general. The gains and losses reflect the monthly price of each index only, and therefore, do not include dividends. These charts are for illustrative purposes only. Any investment cannot be made directly in an index. Past performance is no guarantee of future results.

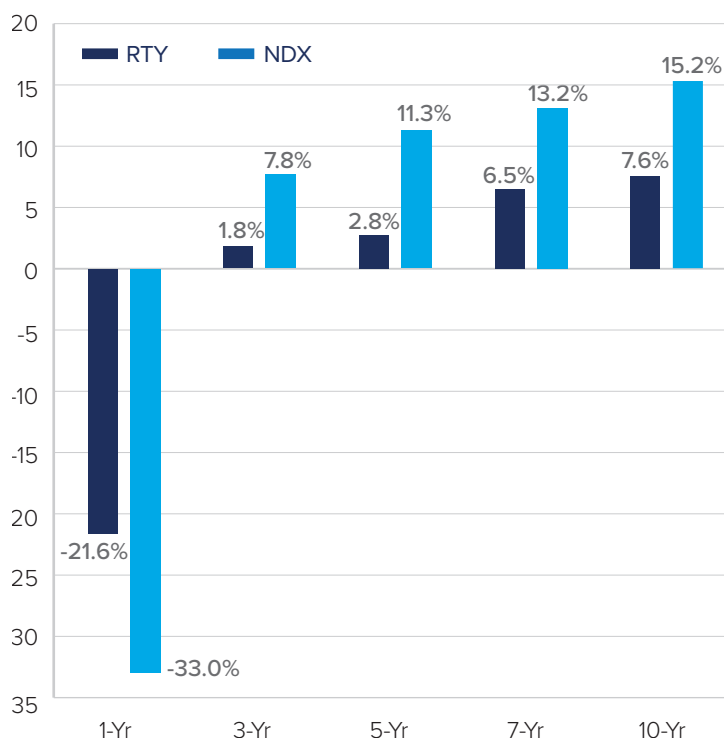
¹ The above percentages have been expressed on a whole number basis for illustrative purposes.

Launch date		Jan 1, 1984	Feb 1, 1985
Ticker		RTY	NDX
Stocks		2,000	102
Sector weightings	Financials	19.7%	0.0%
	Industrials	17.2%	7.5%
	Health Care	15.7%	16.8%
	Consumer Discretionary	13.4%	26.2%
	Information Technology	11.0%	35.4%
	Consumer Staples	5.0%	4.8%
	Materials	4.5%	0.0%
	Energy	4.4%	0.9%
	Real Estate	4.0%	0.0%
	Utilities	2.7%	0.0%
	Communications Services	2.4%	6.9%

Source: Bloomberg as of December 30, 2022

Trailing returns as of December 30, 2022

This graph illustrates the Index's price during the trailing 1-, 3-, 5-, 7-, and 10-year given periods.



Source: Bloomberg as of December 30, 2022. This graph illustrates the Index's price during the trailing 1-, 3-, 5-, 7-, and 10-year given periods only, and therefore, does not include dividends. These charts are for illustrative purposes only. Any investment cannot be made directly in an index. Past performance is no guarantee of future results.



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