



## MARKET-LINKED PRODUCTS UNDERLYER:

# RUSSELL 2000® INDEX



## Underlyer

The Russell 2000® Index is a small-cap stock market index of the bottom 2,000 stocks in the Russell 3000® Index. The Index is maintained by FTSE Russell, a subsidiary of the London Stock Exchange Group. It is the most widely quoted measure of the overall performance of the small-cap to mid-cap company shares.

Some Market-Linked Products may be linked to the performance of The Russell 2000®. Dividends paid on the underlyer 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 performance of The Russell 2000®, as detailed in the offering documents. Additionally, your statement value will reflect any upward or downward movements in the volatility of the Index.

### Index Information<sup>1</sup>

**Launch Date** January 1, 1984

**Ticker** RTY

**Stocks** 2,000

Financials	21.3%
Health Care	16.0%
Industrials	15.1%
Consumer Discretionary	13.3%
Information Technology	12.5%
Real Estate	5.1%
Consumer Staples	4.6%
Materials	3.6%
Utilities	3.0%
Energy	2.8%
Communications Services	2.7%

<sup>1</sup> Source: Bloomberg as of December 31, 2018

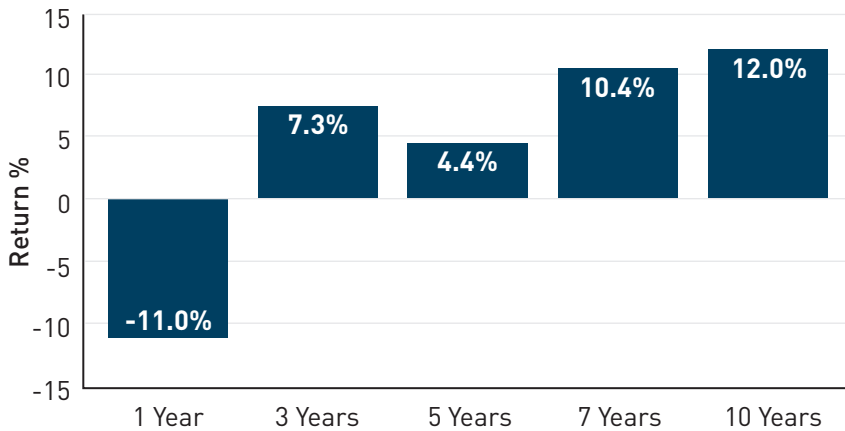
## Russell 2000® Index – Historical Look at Gains/Losses

This chart illustrates the number of times the Index has gained or lost within various percentage ranges across different time periods, occurring over 35 years from 1983 to 2018.

	Total Observations	Total Gains	Total Losses	-1 to -10%	-11 to -15%	-16 to -20%	-21 to -25%	-26 to -30%	-31 to -40%	-41 to -50%	< -50%	0% to 15%	16 to 25%	26 to 40%	> 40%
1-Year	409	299	110	50	22	14	12	4	7	1	0	134	93	56	16
3-Year	385	335	50	13	5	8	9	7	6	2	0	53	73	80	129
5-Year	361	325	36	19	10	1	4	1	1	0	0	39	17	55	214
7-Year	337	333	4	2	0	2	0	0	0	0	0	9	17	37	270
10-year	301	300	1	1	0	0	0	0	0	0	0	7	6	7	280

Source: Bloomberg. This chart represents the number of times the Russell 2000® Index dropped and gained a defined amount over 1-, 3-, 5-, 7- and 10-year rolling periods in the past 35 years with monthly observations commencing on December 30, 1983 and ending on December 31, 2018. The Index is an unmanaged group of securities and is considered to be representative of U.S. small cap companies. The declines and gains reflect the price of the Index only, and therefore, do not include dividends. This chart is for illustrative purposes only. An investment cannot be made directly in an index. Past performance is no guarantee of future results.

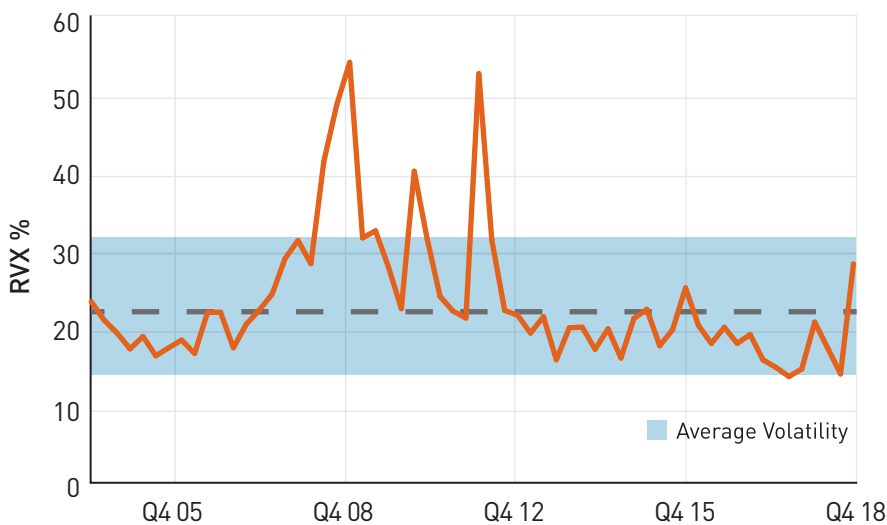
## Russell 2000® Index – Trailing Returns as of December 31, 2018



The illustrated annualized total returns provide a snapshot of the Russell 2000® Index's performance during the trailing 1-, 3-, 5-, 7- and 10-year given periods.

Source: Bloomberg as of December 31, 2018. This chart is for illustrative purposes only. An investment cannot be made directly in an index. Returns for greater than 1 year are expressed in terms of compounded average annual returns. Returns are not adjusted for sales charges and do not account for management, administrative and other fees.

## Russell 2000® Index – Historical Volatility



The Russell 2000® volatility is demonstrated through the CBOE (Chicago Board Options Exchange) Russell 2000 Volatility Index (ticker: RVX). It is a key measure of market expectations of 30-day volatility conveyed by Russell 2000® stock index option prices. Volatility refers to the amount of uncertainty or risk in a security's value, and the size of changes in that value. Higher volatility indicates that the price of The Russell 2000® has the potential to change dramatically over a short period of time, in either direction.

Source: Bloomberg. This chart is for illustrative purposes only. An investment cannot be made directly in an index. Past performance is no guarantee of future results. This chart illustrates the implied historical volatility since RVX inception. Data spans the last trading day of each quarter from March 31, 2004 through December 31, 2018. The average volatility range illustrated here is based on the average RVX price on the last trading day of the quarter, plus or minus one standard deviation.

## Speak with your Financial Advisor about the risks and suitability of Market-Linked Products in your portfolio.

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NOT FDIC INSURED	NOT BANK GUARANTEED	MAY LOSE VALUE	NOT A BANK DEPOSIT	NOT INSURED BY ANY GOVERNMENT AGENCY
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