



Market-Linked Product

Dual Directional Market-Linked Note strategies

Market-Linked Products are considered complex investments and may not be suitable for all investors, so its important to review the relevant offering documents.

What if...

you are concerned about the impact a market downturn could have on your portfolio, but want to stay invested in long-term growth opportunities?

Or, if you could earn returns in a moderate market decline in exchange for some potential market upside and still protect a portion of your investment from losses?

Dual Directional Market-Linked Notes, which are considered complex investments, may be suitable for you if you are:

- Aiming to stay invested through market swings or declines
- Looking to protect your initial investment up to a predetermined level¹
- Willing to trade-off potential limits on strong market performance in exchange for potential positive returns in moderately down markets
- Prepared to potentially lose principal if market returns are below your predetermined downside protection level¹

¹ Any return of principal, interest, and gains generated is subject to the credit risk of the issuer and terms of the offering documents, which could include participation rates, interim caps, and various risks. Any applicable downside protection will be realized only at maturity. Return at maturity could be less than the original amount invested.

You have choices

Dual Directional Market-Linked Notes provide a unique feature that may provide positive growth opportunities in both up and down markets, up to a predetermined downside protection level. Before investing you should ask yourself some important questions.



Underlier

Where do you want market exposure?

Dual Directional Market-Linked Notes are linked to the performance of at least one or more underlying assets (“underliers”). Examples of typical underliers include indices such as the S&P 500®, Dow Jones Industrial Average® (DJIA), Russell 2000®, and EuroSTOXX50®, or asset allocation strategies.



Downside protection

How much of your principal do you want to protect?

Dual Directional Market-Linked Notes provide varying levels of principal protection at maturity, subject to the credit risk of the issuer. Levels can range from full principal protection to some or no downside protection at all.¹



Maturity

What is your investment time horizon?

Dual Directional Market-Linked Notes have investment time periods that commonly range up to 5 years. They are intended to be buy and hold investments that are held to maturity. At maturity, there is the potential for positive returns plus full, partial, or no principal protection on the initial investment. If sold prior to maturity, the value of the investment may be worth less than the principal amount.



Upside potential

What is your desired level of growth?

Dual Directional Market-Linked Notes provide the opportunity to participate in some, all, or more of the growth of the underlier.¹ There may be a cap on the maximum return. The return of the underlier is measured point-to-point, meaning the difference between the initial value and the ending value of the underlier at maturity. The “dual” feature offers participation in the potential positive performance of the underlier, which may be subject to a cap or maximum return.¹ If the performance of the underlier is negative, but above the downside protection level, the negative performance becomes positive at maturity. It is important to understand that negative returns below the predetermined protection level will result in a loss of some or all principal at maturity.

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Understanding your downside protection

Dual Directional Market-Linked Notes have two types of features that determine what, if any, principal is returned at maturity.

A **buffer** absorbs the full loss of principal up to a predetermined level at maturity. If, at maturity, the value of the underlier declines more than the buffer, you will incur an incremental loss.¹

A **barrier** also provides protection from loss of principal up to a predetermined level at maturity. However with a barrier, if at maturity the price of the underlier drops below the barrier level, the investor is fully exposed with a 1:1 loss of the initial principal.¹

Hypothetical example of how Dual Directional Market-Linked Notes work



It is important to note:

- Dividends paid on the underlier are not passed through to the Dual Directional Market-Linked Note and if the underlier meets the predetermined thresholds at maturity, you will not receive similar growth in the form of capital appreciation from your investment.
- Dual Directional Market-Linked Notes are designed as buy and hold investments and there may not be a liquid secondary market. The value of the investment may be worth less than the principal amount if sold prior to maturity.
- To understand the specific terms that may impact the performance of a particular Dual Directional Market-Linked Note, you should review the relevant offering documents.

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What should you expect at maturity?

Buffered Dual Directional Market-Linked Notes

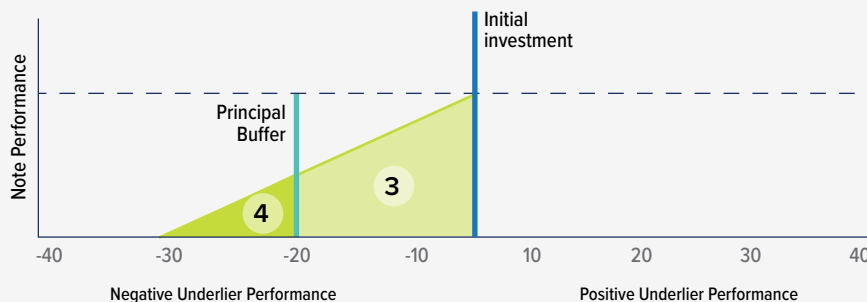
Hypothetical Terms

Participation of the underlier: 100%		Maximum return (Cap) 40%		Buffer level: 20%	
Performance of underlier at maturity	Investment return	Payment at maturity	Outcomes at maturity		
60%	40%	\$1,400	You will receive full principal + a capped positive return Maximum return is achieved and there is no further upside participation of the underlier.		
50%	40%	\$1,400			
40%	40%	\$1,400			
30%	30%	\$1,300	You will receive a positive return + full principal At or above the initial level, there is full participation in the appreciation of the index, up to the cap, and initial principal is returned.		
20%	20%	\$1,200			
10%	10%	\$1,100			
Initial Level	0%	\$1,000			
-10%	+10%	\$1,100	You will receive a positive return + full principal The performance of the underlier falls below its initial level. However, since the performance of the underlier is negative, but above the downside protection level, the negative performance becomes positive and is returned along with the initial principal at maturity.		
-20%	+20%	\$1,200			
-30%	-10%	\$900	You will have a loss of principal at maturity Since the performance of the underlier falls below the buffer level, the investor incurs an incremental loss at maturity. With a buffer lever of 20%, your loss of principal will be the percentage decline less the 20% buffer. An underlier decline of 30% would result in a 10% loss of principal.		
-40%	-20%	\$800			
-50%	-30%	\$700			
-60%	-40%	\$600			

The table above is a hypothetical example for illustrative purposes only.

Negative Performance at Maturity

Breached Buffer at Maturity



- 3 Buffer will absorb underlier declines up to the principal buffer level.
- 4 Once the underlier breaches the 20% buffer, incremental principal losses will begin. For example a 30% decline will result in a 10% loss of principal.

The chart above is a hypothetical example for illustrative purposes.

Any return of principal, interest, and gains generated is subject to the credit risk of the issuer and terms of the offering documents, which could include participation rates, interim caps, and various risks. Any applicable downside protection will be realized only at maturity. Return at maturity could be less than the original amount invested.

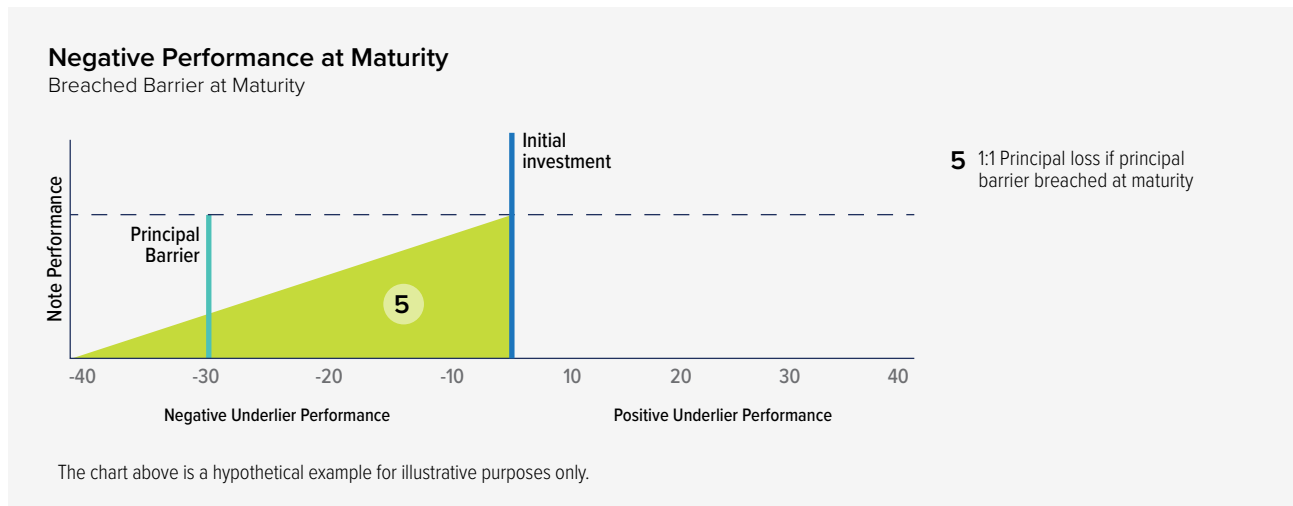
Principal Barrier Dual Directional Market-Linked Notes

Hypothetical Terms

Participation of the underlier: 100%	Maximum return (Cap) 40%	Barrier level: 70% (contingent barrier 30%)
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Performance of underlier at maturity	Investment return	Payment at maturity	Outcomes at maturity
60%	40%	\$1,400	You will receive full principal + a capped positive return Maximum return is achieved and there is no further upside participation of the underlier.
50%	40%	\$1,400	
40%	40%	\$1,400	
30%	30%	\$1,300	You will receive a positive return + full principal At or above the initial level, there is full participation in the appreciation of the index, up to the cap, and initial principal is returned.
20%	20%	\$1,200	
10%	10%	\$1,100	
Initial Level	0%	\$1,000	
-10%	+10%	\$1,100	You will receive a positive return + full principal The performance of the underlier falls below its initial level. However, since the performance of the underlier is negative, but above the principal barrier level, the negative performance becomes positive and is returned along with the initial principal at maturity.
-20%	+20%	\$1,200	
-30%	+30%	\$1,300	
-40%	-40%	\$600	You will have a loss of principal at maturity Since the performance of the underlier falls below the barrier level, the investor loses the contingent protection from the barrier and is exposed to a 1:1 loss of principal at maturity.
-50%	-60%	\$500	
-60%	-60%	\$400	

The table above is a hypothetical example for illustrative purposes only.



6 Any return of principal, interest, and gains generated is subject to the credit risk of the issuer and terms of the offering documents, which could include participation rates, interim caps, and various risks. Any applicable downside protection will be realized only at maturity. Return at maturity could be less than the original amount invested.

What you should know before investing in Dual Directional Market-Linked Notes

Speak with your financial professional about the risks and suitability of Dual Directional Market-Linked Notes in your portfolio.

Credit risk

Dual Directional Market-Linked Notes represent senior unsecured debt that is subject to the credit risk of the issuer. If the issuer goes into default, any return of principal and gains generated could be at risk of loss.

Fees

Market-Linked Products are subject to fees and costs, including a possible commission paid to your financial professional, structuring and development costs, and offering expenses. There are also trading costs, including costs to hedge the product. Any sales prior to maturity will be reduced by the cost of all the associated fees and costs. Please refer to the offering documents for a full list of fees.

Liquidity risk

Market-Linked Products are intended to be held until maturity, and there is no formal secondary market for the product, which may make early redemptions difficult and subject to a variety of market-related factors. In the event that you are able to redeem Market-Linked Products prior to maturity, the redemption proceeds may be less or more than the amount you invested due to fluctuations in the underlying assets and other market-related factors.

Market risk

Market-Linked Products are linked to the performance of the underlying assets. The return on Market-Linked Products can be adversely impacted if the underlying assets perform poorly. Depending on the performance of underlying assets, the payment you receive at maturity could result in no return above the principal amount invested.

Performance risk

The Market-Linked Product pays a return based upon the performance of an underlying asset as outlined in the offering documents. These terms may include interim caps, averaging, and the rates of participation in the underlying asset. Market-Linked Products do not pay dividends. If dividends are declared on the underlying asset, they will be excluded when calculating Market-Linked Product performance.

Principal risk

Some Market-Linked Products are not structured to repay your full principal amount on the stated maturity date. For these Market-Linked Products, depending on the performance of the market measure, the payment you receive at maturity may be less than the original offering price of the Market-Linked Products.

Tax implications

The tax treatment of Market-Linked Products is complicated, varies depending on the structure, and in some cases is uncertain. Before purchasing any Market-Linked Product, please consult with a tax advisor. You should read the applicable tax risk disclosures in the offering documents when considering the purchase of Market-Linked Products.



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