Index Frontier 5 Pro



A registered index-linked annuity from MassMutual Ascend Life Insurance Company



Participate in market growth

Growth is limited by a cap



Benefit from tax deferral

Assets grow tax-deferred and may accumulate at a faster rate



Manage downside risk

Downside risk is limited by a floor or buffer



10% penalty-free withdrawals

An early withdrawal charge applies to withdrawals in excess of 10% during the first five contract years

Rates effective: 3/07/2024-3/20/2024 For terms starting on: 3/20/2024	1-Year Term 10% Buffer with Cap Protects against the first 10% of index losses		-10% Floc	or Term or with Cap inst index losses ss of -10%	1-Year Term 0% Floor with Cap Complete protection against index losses		
	Purchase payments \$250k and over	Purchase payments less than \$250k	Purchase payments \$250k and over	Purchase payments less than \$250k	Purchase payments \$250k and over	Purchase payments less than \$250k	
S&P 500	13.25%	12.25%	12.50%	11.50%	8.00%	7.50%	
iShares MSCI EAFE			12.00%	11.00%	8.00%	7.50%	
iShares U.S. Real Estate			18.00%	16.50%	8.00%	7.50%	

Contract fees: A fee is deducted from each strategy on a daily basis and compounds to an effective annual rate of 0.50%

Your financial representative's Broker/Dealer has enabled the above strategies to be offered. Available strategies may vary by Broker/Dealer.

State Approvals and Variations: Index Frontier 5 Pro is not available in AK, NJ, NY, OR, PR.

Extended Care and Terminal Illness waivers not available in MA. Residents are only permitted to purchase annuity products within their resident state in MN and UT.

Bailout Right: On indexed strategies, early withdrawal charges are waived if the cap for an indexed strategy ever falls below its bailout trigger. Buffer Indexed Strategies have a bailout trigger of 5%; -10% Floor Indexed Strategies have a bailout trigger of 3%.

The Index Frontier 5 Pro can only be sold through a Broker/Dealer that is contracted with MassMutual Ascend Life Insurance Company. This material must be preceded or accompanied by a prospectus for MassMutual Ascend's Index Frontier 5 Pro. The prospectus contains important information about the Index Frontier 5 Pro annuity and MassMutual Ascend. Read it carefully before you purchase an Index Frontier 5 Pro contract. In the Index Frontier Pro contract and prospectus, a cap is referred to as a maximum gain, and a floor is referred to as a maximum loss. Visit MassMutualAscend.com/RILArates to obtain a free prospectus.

MassMutual Ascend is not an investment adviser and the information provided in this document is not investment advice. You should consult your investment professional for advice based on your personal circumstances and financial situation. Annuities are intended to be long-term investments and may not be suitable for all investors. Withdrawals from an annuity contract may have tax consequences.

Indexed strategy caps are current as of the date shown and are subject to change at any time. An indexed strategy's return is based, in part, on the change in the value of the applicable index or exchange-traded fund. The return for a term of an indexed strategy will never be more than its cap for that term. Caps may vary from term to term. A cap for a strategy for a term will never be lower than 1.00%. Future indexed strategies could offer different cap guarantees. Buffer strategies offer a 10% buffer each term. Future indexed strategies could offer different buffers or floors.

S&P 500 refers to the S&P 500 Price Return Index (SPX) and the strategies linked to an ETF are based on the change in closing price and do not include dividends. For more information, visit us.spindices.com (keyword SPX). iShares U.S Real Estate refers to iShares US Real Estate ETF (IYR). iShares MSCI EAFE refers to iShares MSCI EAFE ETF (EFA). For more information on the iShares MSCI EAFE ETF and the iShares U.S. Real Estate ETF, visit iShares.com (ticker symbols IYR and EFA).

The "S&P 500 Index" is a product of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and has been licensed for use by MassMutual Ascend Life Insurance Company. S&P®, S&P 500®, US 500, The 500, iBoxx®, iTraxx® and CDX® are trademarks of S&P Global, Inc. or its affiliates ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); MassMutual Ascend Life Insurance Company's Products is not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, and none of such parties make any representation regarding the advisability of investing in such product(s) nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index.

The iShares MSCI EAFE ETF and the iShares U.S. Real Estate ETF are distributed by BlackRock Investments, LLC. iShares®, BLACKROCK®, and the corresponding logos are registered and unregistered trademarks of BlackRock, Inc. and its affiliates ("BlackRock"), and these trademarks have been licensed for certain purposes by MassMutual Ascend. MassMutual Ascend annuity products are not sponsored, endorsed, sold or promoted by BlackRock, and purchasers of an annuity from MassMutual Ascend do not acquire any interest in the iShares MSCI EAFE ETF or the iShares U.S. Real Estate ETF nor enter into any relationship of any kind with BlackRock. BlackRock makes no representation or warranty, express or implied, to the owners of any MassMutual Ascend annuity product or any member of the public regarding the advisability of purchasing an annuity, nor does it have any liability for any errors, omissions, interruptions or use of the iShares MSCI EAFE ETF or the iShares U.S. Real Estate ETF or any data related thereto.

Principal Underwriter/Distributor: MM Ascend Life Investor Services, LLC, member FINRA and an affiliate of MassMutual Ascend Life Insurance Company. Product issued by MassMutual Ascend Life Insurance Company (Cincinnati, Ohio), a wholly owned subsidiary of MassMutual, under contract form number P1833421NW and P1833421ID. Product not available in all states. Form numbers and features may vary by state. All guarantees subject to the claims-paying ability of MassMutual Ascend. © 2024 by MassMutual Ascend. All rights reserved.

Not FDIC or NCUSIF Insured

No Bank or Credit Union Guarantee

May Lose Value

Not Insured by any Federal Government Agency

Not a deposit

F1835622NW-1

Index Frontier 7 Pro



A registered index-linked annuity from MassMutual Ascend Life Insurance Company





Growth is limited by a cap



Benefit from tax deferral

Assets grow tax-deferred and may accumulate at a faster rate



Manage downside risk

Downside risk is limited by a floor or buffer



10% penalty-free withdrawals

An early withdrawal charge applies to withdrawals in excess of 10% during the first seven contract years

Rates effective: 3/07/2024-3/20/2024 For terms starting on: 3/20/2024	1-Yean 10% Buffer Protects a first 10% of i	with Cap	1-Yea -10% Flooi Protects agair, in exces.	est index losses	1-Year Term 0% Floor with Cap Complete protection against index losses		
5/20/2024	Purchase payments \$250k and over	Purchase payments less than \$250k	Purchase payments \$250k and over	Purchase payments less than \$250k	Purchase payments \$250k and over	Purchase payments less than \$250k	
S&P 500	15.25%	13.75%	13.75%	12.75%	8.75%	8.25%	
iShares U.S. Real Estate			18.50%	17.00%	8.75%	8.25%	
iShares MSCI EAFE			13.00%	12.00%	9.25%	8.75%	

Contract fees: A fee is deducted from each strategy on a daily basis and compounds to an effective annual rate of 1.00%.

Your financial representative's Broker/Dealer has authorized the above strategies to be offered. Available strategies may vary by Broker/Dealer.

State Approvals and Variations: Index Frontier 7 Pro is not available in AK, NJ, NY, OR, PR.

Extended Care and Terminal Illness waivers not available in MA. Residents are only permitted to purchase annuity products within their resident state in MN and UT.

Bailout Right: On indexed strategies, early withdrawal charges are waived if the cap for an indexed strategy ever falls below its bailout trigger. Buffer Indexed Strategies have a bailout trigger of 6%; -10% Floor Indexed Strategies have a bailout trigger of 3%.

The Index Frontier 7 Pro can only be sold through a Broker/Dealer that is contracted with MassMutual Ascend Life Insurance Company. This material must be preceded or accompanied by a prospectus for MassMutual Ascend's Index Frontier 7 Pro. The prospectus contains important information about the Index Frontier 7 Pro annuity and MassMutual Ascend. Read it carefully before you purchase an Index Frontier 7 Pro contract. In the Index Frontier 7 Pro contract and prospectus, a cap is referred to as a maximum gain, and a floor is referred to as a maximum loss. Visit MassMutualAscend.com/RILArates to obtain a free prospectus.

MassMutual Ascend is not an investment adviser and the information provided in this document is not investment advice. You should consult your investment professional for advice based on your personal circumstances and financial situation. Annuities are intended to be long-term investments and may not be suitable for all investors. Withdrawals from an annuity contract may have tax consequences.

Indexed strategy caps are current as of the date shown and are subject to change at any time. An indexed strategy's return is based, in part, on the change in the value of the applicable index or exchange-traded fund. The return for a term of an indexed strategy will never be more than its cap for that term. Caps may vary from term to term. A cap for a strategy for a term will never be lower than 1.00%. Future indexed strategies could offer different cap guarantees. Buffer strategies offer a 10% buffer each term. Future indexed strategies could offer different buffers or floors.

S&P 500 refers to the S&P 500 Price Return Index (SPX) and the strategies linked to an ETF are based on the change in closing price and do not include dividends. For more information, visit us.spindices.com (keyword SPX). iShares U.S Real Estate refers to iShares US Real Estate ETF (IYR). iShares MSCI EAFE refers to iShares MSCI EAFE ETF (EFA). For more information on the iShares MSCI EAFE ETF and the iShares U.S. Real Estate ETF, visit iShares.com (ticker symbols IYR and EFA).

The "S&P 500 Index" is a product of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and has been licensed for use by MassMutual Ascend Life Insurance Company. S&P®, S&P 500®, US 500, The 500, iBoxx®, iTraxx® and CDX® are trademarks of S&P Global, Inc. or its affiliates ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); MassMutual Ascend Life Insurance Company's Products is not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, and none of such parties make any representation regarding the advisability of investing in such product(s) nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index.

The iShares MSCI EAFE ETF is distributed by BlackRock Investments, LLC. iShares®, BLACKROCK®, and the corresponding logos are registered and unregistered trademarks of BlackRock, Inc. and its affiliates ("BlackRock"), and these trademarks have been licensed for certain purposes MassMutual Ascend. MassMutual Ascend annuity products are not sponsored, endorsed, sold or promoted by BlackRock, and purchasers of an annuity from MassMutual Ascend do not acquire any interest in the iShares MSCI EAFE ETF nor enter into any relationship of any kind with BlackRock. BlackRock makes no representation or warranty, express or implied, to the owners of any MassMutual Ascend annuity product or any member of the public regarding the advisability of purchasing an annuity, nor does it have any liability for any errors, omissions, interruptions or use of the iShares MSCI EAFE ETF or any data related thereto.

Principal Underwriter/Distributor: MM Ascend Life Investor Services, LLC, member FINRA and an affiliate of MassMutual Ascend Life Insurance Company. Product issued by MassMutual Ascend Life Insurance Company (Cincinnati, Ohio), a wholly owned subsidiary of MassMutual, under contract form number P1833521NW and P1833521ID. Product not available in all states. Form numbers and features may vary by state. All guarantees subject to the claims-paying ability of MassMutual Ascend. © 2024 by MassMutual Ascend. All rights reserved.

Not FDIC or NCUSIF Insured

No Bank or Credit Union Guarantee

May Lose Value

Not Insured by any Federal Government Agency

Not a deposit



Index Summit 6 Pro

A registered index-linked annuity from MassMutual Ascend Life Insurance Company



Participate in market growth

Growth is limited by a cap or upside participation rate



Benefit from tax deferral

Assets grow tax-deferred and may accumulate at a faster rate



Manage downside risk

Downside risk is limited by a floor, downside participation rate or buffer



10% penalty-free withdrawals

A early withdrawal charge applies to withdrawals in excess of 10% during the first six contract years

Rates effective: 3/07/2024-3/20/2024	1-Year Term 50% Downside Participation Rate with Upside Participation Rate		2-Year Term 50% Downside Participation Rate with Upside Participation Rate		50% Downside	r Term e Participation ith Cap	2-Year Term 50% Downside Participation Rate with Cap	
For terms starting on: 3/20/2024	Protects against half of index losses		Protects against half of index losses		Protects against half of index losses		Protects against half of index losses	
	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k
S&P 500	75%	70%	90%	85%	14.00%	13.00%	35%	33%
iShares MSCI EAFE	85%	80%						
iShares U.S. Real Estate	75%	70%						
First Trust Barclays Edge	165%	160%						

Contract fees: A fee is deducted from each strategy on a daily basis and compounds to an effective annual rate of 0.75%

Rates continued on next page \rightarrow

Rates effective: 2/21/2024-3/06/2024	1-Year Term 0% Floor with Cap		1-Year Term -10% Floor with Cap		1-Year Term 10% Buffer with Upside Participation Rate		1-Year Term 10% Buffer with Cap		6-Year Term 10% Buffer with Upside Participation Rate	
For terms starting on:	Complete protection against index losses		Protects against index losses in excess of -10%		Protects against the first 10% of index losses		Protects against the first 10% of index losses		Protects against the first 10% of index losses	
3/06/2024	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k	Purchase payments \$100k and over	Purchase payments less than \$100k
S&P 500	6.75%	6.5%	12%	11.5%			14.5%	14%	130%	125%
iShares MSCI EAFE			12.5%	12%						
iShares U.S. Real Estate			15%	14%						
SPDR Gold Shares			18%	16%						
First Trust Barclays Edge					130%	125%				

Available strategies may vary by Broker/Dealer and by state. Please talk with your financial professional to determine the strategies available.

State Approvals and Variations: Index Summit 6 is not available in AK, NY, OR, PR.

6-Year Term 10% Buffer Strategy not available in AK, NY, OR, PR.

Extended Care and Terminal Illness waivers not available in MA. Residents are only permitted to purchase annuity products within their resident state in MN and UT.

The Index Summit 6 Pro can only be sold through a Broker/Dealer that is contracted with MassMutual Ascend Life Insurance CompanySM. This material must be preceded or accompanied by a prospectus for MassMutual Ascend's Index Summit 6 Pro. The prospectus contains important information about the Index Summit 6 Pro annuity and MassMutual Ascend. Read it carefully before you purchase an Index Summit 6 Pro contract. To obtain a copy of the prospectus, please visit MassMutualAscend.com/RILArates.

MassMutual Ascend is not an investment adviser and the information provided in this document is not investment advice. You should consult your investment professional for advice based on your personal circumstances and financial situation.

^{*6-}year term with 10% buffer strategy is only available at issue.

Indexed strategy caps and upside participation rates are current as of the date shown and are subject to change at any time. An indexed strategy 's return is based, in part, on the change in the value of the applicable index or exchange-traded fund. For each indexed strategy that we currently offer, any positive return for a term is subject to the applicable cap or upside participation rate for that term. These caps and upside participation rates may vary from term to term. For current strategies, the cap for a term will never be less than 1%, and the upside participation rate for a term will never be less than 5%. Future indexed strategies could offer different minimum caps and participation rates. For each indexed strategy that we currently offer, any negative return for a term is limited by a 50% downside participation rate. Future indexed strategies could offer different downside participation rates.

For more information on the iShares MSCI EAFE ETF, visit iShares.com and search ticker symbol EFA.

The "S&P 500 Index" is a product of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and has been licensed for use by MassMutual Ascend Life Insurance Company. S&P®, S&P 500®, SPDR®, US 500, The 500, iBoxx®, iTraxx® and CDX® are trademarks of S&P Global, Inc. or its affiliates ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); MassMutual Ascend Life Insurance Company's products are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, and none of such parties make any representation regarding the advisability of investing in such products nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index.

The First Trust Barclays Edge Index ("FTIS Index") is a product of FT Indexing Solutions LLC ("FTIS") and is administered and calculated by Bloomberg Index Service Limited and its affiliates (collectively, "BISL"). FIRST TRUST® is a trademark of First Trust Portfolios L.P. (collectively, with FTIS and their respective affiliates, "First Trust"). The foregoing index and trademark have been licensed for use for certain purposes by Barclays, Bloomberg, and MassMutual Ascend Life Insurance Company ("MassMutual Ascend") in connection with the FTIS Index and MassMutual Ascend's products.

The Capital Strength Index ("Nasdaq Index") is a product of Nasdaq, Inc. (collectively, with its affiliates, "Nasdaq"). NASDAQ®, CAPITAL STRENGTH INDEXTM, NQCAPSTTM, and NQCAPSTTM are trademarks of Nasdaq. The foregoing index and trademarks have been licensed for use for certain purposes by FTIS and MassMutual Ascend in connection with the FTIS Index and MassMutual Ascend's products.

The Value Line Dividend Index ("Value Line Index") is a product of Value Line, Inc. ("Value Line"). VALUE LINE® and VALUE LINE DIVIDEND INDEXTM are trademarks or registered trademarks of Value Line. The foregoing index and trademarks have been licensed for use for certain purposes by FTIS and MassMutual Ascend in connection with the FTIS Index and MassMutual Ascend's products. The FTIS Index is not sponsored, endorsed, recommended, sold or promoted by Value Line and Value Line makes no representation regarding the advisability of investing in the FTIS Index.

BLOOMBERG® is a trademark and service mark of Bloomberg Finance L.P. Bloomberg Finance L.P., BISL, and their affiliates ("Bloomberg") are not affiliated with First Trust or Barclays. Bloomberg's relationship to First Trust and Barclays is only (1) in the licensing of the FIRST TRUST®, BARCLAYS®, and FIRST TRUST BARCLAYS EDGE INDEXTM trademarks and (2) to act as the administrator and calculation agent of the FTIS Index, which is the property of FTIS. Bloomberg does not guarantee the timeliness, accurateness, or completeness of the FTIS Index or any data or information relating thereto and shall have no liability in connection with the FTIS Index or any data or information relating thereto.

MassMutual Ascend's products are not issued, sponsored, endorsed, sold, recommended, or promoted by First Trust, Bloomberg, Nasdaq, Value Line, or their respective affiliates (collectively, the "Companies"). The Companies do not make any representation regarding the advisability of investing in MassMutual Ascend's products or products based on the FTIS Index, Barclays Indices, Nasdaq Index, or Value Line Index, do not make any warranties or bear any liability with respect to such products, and do not make any warranties or bear any liability with respect to MassMutual Ascend's products or another party's index.

Neither Barclays Bank PLC ('BB PLC") nor any of its affiliates (collectively 'Barclays') is the issuer or producer of MassMutual Ascend's products and Barclays has no responsibilities, obligations or duties to investors in MassMutual Ascend's products. The Barclays US 2Y Treasury Futures Index, Barclays US 5Y Treasury Futures Index, Barclays US 30Y Treasury Futures Index (collectively, the "Indices"), together with any Barclays indices that are components of the Indices, are trademarks owned by Barclays and, together with any component indices and index data, are licensed for use by MassMutual Ascend as the issuer or producer of MassMutual Ascend's products (the 'Issuer').

Barclays' only relationship with the Issuer in respect of the Indices is the licensing of the Indices, which are administered, compiled and published by BB PLC in its role as the index sponsor (the 'Index Sponsor') without regard to the Issuer or MassMutual Ascend's products or investors in MassMutual Ascend's products. Additionally, MassMutual Ascend as issuer or producer of their products may for itself execute transaction(s) with Barclays in or relating to the Indices in connection with their products. Investors acquire MassMutual Ascend's products from MassMutual Ascend and investors neither acquire any interest in the Indices nor enter into any relationship of any kind whatsoever with Barclays upon making an investment in MassMutual Ascend's products. MassMutual Ascend's products are not sponsored, endorsed, sold or promoted by Barclays and Barclays makes no representation regarding the advisability of MassMutual Ascend's products or use of the Indices or any data included therein. Barclays shall not be liable in any way to the Issuer, investors or to other third parties in respect of the use or accuracy of the Indices or any data included therein.

The iShares MSCI EAFE ETF and the iShares U.S. Real Estate ETF are distributed by BlackRock Investments, LLC. iShares®, BLACKROCK®, and the corresponding logos are registered and unregistered trademarks of BlackRock, Inc. and its affiliates ("BlackRock"), and these trademarks have been licensed for certain purposes by MassMutual Ascend. MassMutual Ascend annuity products are not sponsored, endorsed, sold or promoted by BlackRock, and purchasers of an annuity from MassMutual Ascend do not acquire any interest in the iShares MSCI EAFE ETF or the iShares U.S. Real Estate ETF nor enter into any relationship of any kind with BlackRock. BlackRock makes no representation or warranty, express or implied, to the owners of any MassMutual Ascend annuity product or any member of the public regarding the advisability of purchasing an annuity, nor does it have any liability for any errors, omissions, interruptions or use of the iShares MSCI EAFE ETF or the iShares U.S. Real Estate ETF or any data related thereto.

Principal Underwriter/Distributor: MM Ascend Life Investor Services, LLC, member FINRA and an affiliate of MassMutual Ascend Life Insurance Company. Product issued by MassMutual Ascend (Cincinnati, Ohio), a wholly owned subsidiary of MassMutual, under contract form number P1833621NW and P1833621ID. Product not available in all states. Form numbers and features may vary by state. All guarantees subject to the claims-paying ability of MassMutual Ascend. © 2024 by MassMutual Ascend. All rights reserved.