MINIMUM VARIANCE

STOXX® ASIA/PACIFIC 600 MINIMUM VARIANCE **UNCONSTRAINED INDEX**

Index description

The STOXX Asia/Pacific 600 Minimum Variance Unconstrained index weights the components of the underlying STOXX Asia/Pacific 600 index so that portfolio variance is minimized. STOXX uses Axioma's factor model for the optimization process. The Unconstrained version applies loosely stated constraints to seek an improved risk profile. It targets investors seeking a more optimal portfolio in terms of replicated volatility.

Key facts

»Minimized volatility is suitable for risk-averse investors. At the same time, the return of the index is higher than the benchmark.

»Suitable as a liquid underlying for ETFs and structured products. It is easy to replicate as it has fewer components than the underlying Index. It also has predictable rebalancing dates and is optimized to allow tracking (low turnover, transaction costs analysis, etc.).

»Capping constraints are applied in accordance with the Undertakings for Collective Investment in Transferable Securities (UCITS) directive to ensure that funds can easily track the index.

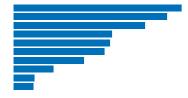
»Two versions - Constrained and Unconstrained - cater to different investor needs.

»The Unconstrained version offers a first-of-its-kind index for a true minimum variance mandate.

Descriptive statistics

Index	Market cap (USD bn.)		Components (USD bn.)		Component weight (%)		Turnover (%)		
	Full	Free-float	Mean	Median	Largest	Smallest	Largest	Smallest	Last 12 months
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	N/A	105.5	0.8	0.3	4.9	0.0	4.6	0.0	60.6
STOXX Asia/Pacific 600 Index	7,561.2	6,336.0	10.6	4.4	197.6	1.4	3.1	0.0	2.9

Supersector weighting (top 10)



- 18.2% Food, Beverage & Tobacco 16.6% Telecommunications
- 14.2% Utilities
- 10.6% Travel & Leisure 10.4% Personal Care, Drug & Grocery Stores
- 9.8% Real Estate
- 7.6% Banks 4.3% Industrial Goods & Services 2.3% Insurance

2.1% Health Care

Country weighting



Risk and return figures¹

Index returns				R	eturn (%)			Anr	nualized ret	turn (%)
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	зү	5Y
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	0.7	0.7	2.7	3.4	0.1	N/A	N/A	2.7	1.1	0.0
STOXX Asia/Pacific 600 Index	4.1	7.8	12.8	18.8	16.3	N/A	N/A	12.9	6.0	3.1
Index volatility and risk	Annualized volatility (%) Annualized Sharpe						pe ratio²			
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	8.5	9.0	11.4	10.7	11.5	N/A	N/A	0.1	0.1	0.0
STOXX Asia/Pacific 600 Index	15.1	13.3	16.5	15.7	16.2	N/A	N/A	0.6	0.4	0.2
Index to benchmark		Correlation						Tracking	error (%)	
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	0.8	0.8	0.9	0.8	0.9	9.0	7.9	9.0	9.0	8.7
Index to benchmark					Beta			Annualiz	zed informa	tion ratio
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	0.5	0.6	0.6	0.6	0.6	-4.6	-1.9	-1.2	-0.6	-0.5

¹ For information on data calculation, please refer to STOXX calculation reference guide

(USD, gross return), all data as of Jun. 30, 2023



² Based on EURIBOR1M

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Fundamentals (for last 12 months)

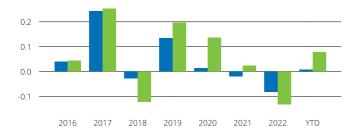
Index		Price/earnings incl. negative		Price/earnings excl. negative		Dividend yield (%) ³	Price/ sales	Price/ cash flow	
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing	
STOXX Asia/Pacific 600 Minimum Variance Unconstrained Index	12.6	11.8	12.2	11.7	1.1	3.7	1.0	0.2	
STOXX Asia/Pacific 600 Index	15.8	15.3	14.6	15.1	1.5	3.3	1.2	3.6	

Performance and annual returns4



STOXX® Asia/Pacific 600 Minimum Variance Unconstrained Index

STOXX® Asia/Pacific 600 Index



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STOXX® Asia/Pacific 600 Index

Methodology

On the basis of the underlying index, a covariance matrix is set up by determining the correlation between each component and specific factors. Using Axioma's factor model, the variance-covariance structure of the components is determined, which is then minimized with respect to applicable constraints. The constraints applied cover individual capping, effective number of assets, rebalancing and turnover. The full list of factors including the requirements to be met can be accessed in our Index rulebook: http://www.stoxx.com/indices/rulebooks.html

Versions and symbols

Index		ISIN	Symbol	Bloomberg	Reuters
Gross Return	EUR	CH0180139294	SAA1UNGR	SAA1UNGR INDEX	.SAA1UNGR
Net Return	EUR	CH0180139138	SAA6UNR	SAA6UNR INDEX	.SAA6UNR
Net Return	EUR	CH0180139138	SAA6UNR	SAA6UNR INDEX	.SAA6UNR
Price	EUR	CH0180138973	SAA6UNP	SAA6UNP INDEX	.SAA6UNP
Price	EUR	CH0180138973	SAA6UNP	SAA6UNP INDEX	.SAA6UNP
Gross Return	USD	CH0180139773	SAA1UNGV	SAA1UNGV INDEX	.SAA1UNGV
Net Return	USD	CH0180139617	SAA6UNV	SAA6UNV INDEX	.SAA6UNV
Net Return	USD	CH0180139617	SAA6UNV	SAA6UNV INDEX	.SAA6UNV
Price	USD	CH0180139450	SAA6UNL	SAA6UNL INDEX	.SAA6UNL
Price	USD	CH0180139450	SAA6UNL	SAA6UNL INDEX	.SAA6UNL

Complete list available here: www.stoxx.com/data/vendor_codes.html

Quick facts

Weighting	Optimization
Cap factor	4.5% / 8% / 35%
No. of components	Variable
Review frequency	Monthly

To learn more about the inception date, the currency, the calculation hours and historical values, please see our data vendor code sheet.

CONTACT DETAILS

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BACKTESTED PERFORMANCE

index performance data based on backtesting, i.e. calculations of how the index might have performed prior to launch if it had existed using the same index methodology and based on historical constituents. Backtested performance information is purely hypothetical and is provided in this document solely for information purposes. Backtested performance does not represent actual performance and should not be

CUSTOMIZATION

The index can be used as a basis for the definition of STOXX® Customized Indices, which can be tailored to specific client or mandate needs. STOXX offers a wide range of customization, in terms of component selection, weighting schemes and personalized calculation methodologies.

³ gr. div. yield is calculated as gr. return index return minus price index return

⁴ STOXX data from Jan. 02, 2004 to Jun. 30, 2023

(USD, gross return), all data as of Jun. 30, 2023

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Top 10 Components⁵

Company	Supersector	Country	Weight (%)	
SembCorp Industries Ltd.	Utilities	Singapore	4.64	
MCDONALD'S HOLDINGS	Travel & Leisure	Japan	4.05	
Singapore Telecommunications L	Telecommunications	Singapore	4.01	
SOFTBANK	Telecommunications	Japan	3.91	
Singapore Airlines Ltd.	Travel & Leisure	Singapore	3.47	
Sun Hung Kai Properties Ltd.	Real Estate	Hong Kong	3.12	
KDDI Corp.	Telecommunications	Japan	2.86	
Nissin Foods Holdings Co. Ltd.	Food, Beverage & Tobacco	Japan	2.70	
Yakult Honsha Co. Ltd.	Food, Beverage & Tobacco	Japan	2.53	
Oversea-Chinese Banking Corp.	Banks	Singapore	2.44	

Based on the composition as of Jun. 30, 2023