

BlueStar Machine Learning and Quantum Computing Index

The BlueStar Machine Learning and Quantum Computing Index (BQTUM) tracks the performance of the largest and most liquid companies in the global quantum computing and machine learning industries. This is a modified market cap-weighted index, and only includes companies that generate at least 50% of their revenue from products and services related to quantum computing or machine learning, such as the development or use of quantum computers or computing chips, superconducting materials, applications built on quantum computers, embedded artificial intelligence chips, or software that specialize in the perception, collection, visualization, or management of big data.

Key Features



All Time High/Low 52-Week High/Low

Total Return Net Index 482.62/87.19 482.62/332.35

Size and Liquidity Requirements

Float-adjusted market capitalization of at least 150 mIn USD. Six-month average-daily-value-traded of at least 250 k USD.

Universe

Companies have to offer products or services related to quantum computing or machine learning technology.

Diversification

Companies are equally weighted.

Review

Semi-annual in June and December.

Index Data

INDEX PARAMETERS

Launch Date	05 May 2022	Components	72
Type	Sector	Volatility (1 year)	25.76
Currency	USD	Full MCap bn USD	6,624.89
Base Date	18 Dec 2015	Float MCap bn USD	5,324.44
Base Value	100.00	Correlation* (1 year)	0.11

* Indxx Global Robotics & Artificial Intelligence Thematic * as of 30 Jun 2022

FUNDAMENTALS*

Price/Earnings Trailing	32.95
Price/Book	2.85
Price/Sales	1.95
Price/Cash Flow	11.01
Dividend Yield	1.42

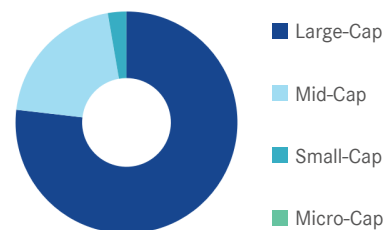
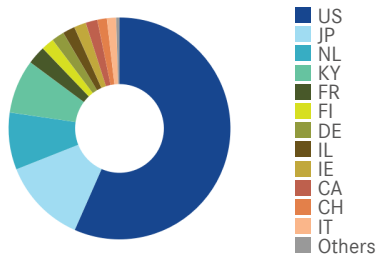
ANNUALISED PERFORMANCE*

1 Month	-13.31%
1 Year	-20.67%
3 Years	16.39%
5 Years	15.82%
Since Inception	20.17%

* Total Return Net Index

Country and Size Weightings

Country	Count	Weight
United States	39	53.66%
Japan	9	11.72%
Netherlands	6	7.88%
Cayman Islands	5	7.44%
France	2	2.55%
Finland	1	1.76%
Germany	1	1.74%
Israel	1	1.69%
Ireland	1	1.65%
Canada	1	1.63%
Switzerland	1	1.32%
Italy	1	1.26%
Others	1	0.46%

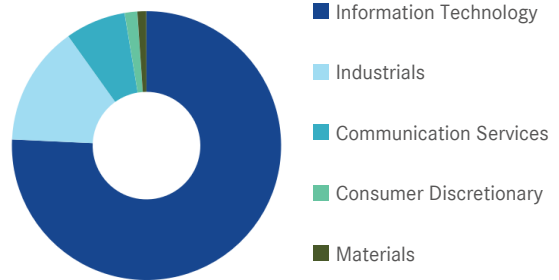


Size	Count	Weight
Large-Cap (> 6 bn)	54	76.83%
Mid-Cap (1.5 bn - 6 bn)	16	20.45%
Small-Cap (0.2 bn - 1.5 bn)	2	2.72%
Micro-Cap (0.0 bn - 0.2 bn)	0	0.00%

BlueStar Machine Learning and Quantum Computing Index

Sector Weightings

Sector	Count	Weight
Information Technology	55	75.74%
Industrials	10	14.38%
Communication Services	5	7.27%
Consumer Discretionary	1	1.53%
Materials	1	1.08%



Index Components

Top Components by Weight	Country	Weight	Best Performing Components	YTD	1 Day
ASUSTEK COMPUTER INC	TW	2.02%	ELASTIC NV	-40.98%	1.51%
BAIDU INC - SPON ADR	KY	2.00%	MICROSOFT CORP	-22.27%	1.47%
NEC CORP ORD	JP	1.80%	MEDIATEK	-42.72%	1.43%
TAIWAN SEMICONDUCTOR-SP ADR	TW	1.79%	ALCHIP TECHNOLOGIES LTD	-33.18%	1.28%
NOKIA CORP-SPON ADR	FI	1.76%	BOOZ ALLEN HAMILTON HOLDING CORP	5.56%	1.08%
ALPHABET INC-CL A	US	1.74%			
MICROSOFT CORP	US	1.74%			
INFINEON TECHNOLOGIES AG	DE	1.74%			
TOWER SEMICONDUCTOR LTD	IL	1.69%			
INTERNATIONAL BUSINESS MACHINES CORP	US	1.66%			
QUALCOMM INC	US	1.65%			
ACCENTURE PLC-CL A	IE	1.65%			
Subtotal		21.24%			

Worst Performing Components	YTD	1 Day
AtoS SE	-67.38%	-6.75%
RIGETTI COMPUTING INC	-67.15%	-6.11%
TERADYNE INC	-44.70%	-5.23%
SENSETIME GROUP INC-CLASS B	6.22%	-5.15%
IONQ INC	-73.29%	-4.90%

Symbols

	Symbol	ISIN	WKN	Sedol	Bloomberg	Reuters	Telekurs
Price Index	BQTUM	DE000SL0FUQ7	SL0FUQ	BQ0GS05	BQTUM	.BQTUM	118655363
Total Return Net	BQTUMNTR	DE000SL0FUR5	SL0FUR	BQ0GS16	BQTUMNTR	.BQTUMNTR	118655364
Total Return Gross	BQTUMTR	DE000SLA5JF2	SLA5JF	BMGR4X9	BQTUMTR	.BQTUMTR	42196303

For further information visit www.mvis-indices.com

Nothing on this factsheet shall be considered a solicitation to buy or an offer to sell a security, or any other product or service, to any person in any jurisdiction where such offer, solicitation, purchase or sale would be unlawful under the laws of such jurisdiction. Neither MV Index Solutions GmbH nor any of its licensors makes any warranties or representations, express or implied, to the user with respect to any of the data contained herein. The data is provided for informational purposes only, and the Company shall not be responsible or liable for the accuracy, usefulness or availability of any information transmitted or made available through it. The MVIS® indices are protected through various intellectual property rights and unfair competition and misappropriation laws. In particular, Van Eck Associates Corporation has registered the "MVIS" trademark. You require a licence to launch any product whose performance is linked to the value of a particular MVIS® index and for all use of the MVIS® name or name of the MVIS® index in the marketing of the product. All information shown prior to the index launch date is simulated performance data created from backtesting ("simulated past performance"). Simulated past performance is not actual but hypothetical performance based on the same or fundamentally the same methodology that was in effect when the index was launched. Simulated past performance may materially differ from the actual performance. Actual or simulated past performance is no guarantee for future results.