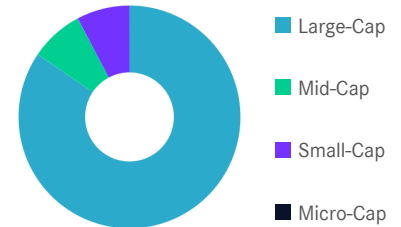
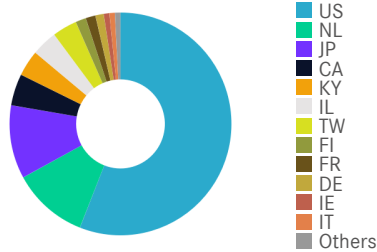




# MarketVector™ Quantum Computing Ecosystem Index

## Country and Size Weightings

Country	Count	Weight
United States	28	55.96%
Netherlands	5	11.07%
Japan	6	10.67%
Canada	3	4.58%
Cayman Islands	3	3.78%
Israel	1	3.74%
Taiwan	2	3.61%
Finland	1	1.53%
France	1	1.43%
Germany	1	1.21%
Ireland	1	0.83%
Italy	1	0.80%
Others	1	0.79%



Size	Count	Weight
Large-Cap (> 6 bn)	45	84.49%
Mid-Cap (1.5 bn - 6 bn)	5	7.78%
Small-Cap (0.2 bn - 1.5 bn)	4	7.73%
Micro-Cap (0.0 bn - 0.2 bn)	0	0.00%

## Index Components

Top Components by Weight	Country	Weight	Best Performing Components	YTD	1 Day
FORMFACTOR INC	US	4.08%	TOWER SEMICONDUCTOR LTD	68.41%	14.35%
TOWER SEMICONDUCTOR LTD	IL	3.74%	HITACHI LTD	-3.47%	2.91%
MKS INSTRUMENTS INC	US	3.31%	mitsubishi electric corp	14.50%	2.89%
ONTO INNOVATION INC	US	3.10%	TOKYO ELECTRON LTD ORD	11.06%	1.05%
INTEL CORP	US	3.08%	NEC CORP ORD	-24.74%	0.57%
APPLIED MATERIALS INC	US	3.06%			
STMICROELECTRONICS NV-NY SHS	NL	2.99%			
ASM INTERNATIONAL NV	NL	2.93%			
LAM RESEARCH CORP	US	2.86%			
ASML HOLDING NV-NY REG SHS	NL	2.81%			
KLA CORP	US	2.74%			
TOKYO ELECTRON LTD ORD	JP	2.74%			
<b>Subtotal</b>		37.44%			
			Worst Performing Components	YTD	1 Day
			BLACKBERRY LTD	-8.39%	-0.00%
			QUANTUM NUMBERS CORP	-32.99%	-0.00%
			HON HAI PRECN.IND.	-17.77%	-0.00%
			WIPRO LTD-ADR	-22.23%	0.00%
			APPLIED MATERIALS INC	35.77%	0.00%

## Symbols

	Symbol	ISIN	WKN	Sedol	Bloomberg	Reuters	Telekurs
<b>Price Return</b>	MVQCE	DE000SL0TTS6	SL0TTS	BWKD0C4	MVQCE	.MVQCE	155056318
<b>Total Return Net</b>	MVQCETR	DE000SL0TTT4	SL0TTT	BWKD0D5	MVQCETR	.MVQCETR	155056324
<b>Total Return Gross</b>	-	-	-	-	-	-	-

## MarketVector™ Quantum Computing Ecosystem Index

---

For further information visit [www.marketvector.com](http://www.marketvector.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 MarketVector Indexes 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 MarketVector™ family of indexes (MarketVector™, Bluestar®, MVIS®) is protected through various intellectual property rights and unfair competition and misappropriation laws. MVIS® is a registered trademark of Van Eck Associates Corporation that has been licensed to MarketVector Indexes GmbH. MarketVector™ and MarketVector Indexes™ are pending trademarks of Van Eck Associates Corporation. BlueStar®, BlueStar Indexes®, BIGI® and BIGITech® are trademarks of MarketVector Indexes GmbH. You require a licence to launch any product whose performance is linked to the value of a particular MarketVector™ Index and for all use of the MarketVector™ name or name of the MarketVector™ Index in the marketing of the product.