

Morningstar® Exponential Technologies IndexSM

20 December 2024

The Morningstar® Exponential Technologies Index™ is designed to provide exposure to equities identified by Morningstar’s Equity Research team as positioned to experience meaningful economic benefits as a user or producer of promising technologies. The index consists of 200 stocks that are equally weighted. It is reconstituted annually in December.

For More Information:
<http://indexes.morningstar.com>
 US: +1 312 384-3735
 Europe: +44 20 3194 1082

Reconstituted Holdings

SecurityName	Ticker	Theme Exposure:									
		Big Data And Analytics	Nano Technology	Hyperconnectivity	Energy Transition	Healthcare Innovation	Robotics	Next Gen Transportation	Cloud Computing	Fintech Innovation	
ASM International NV Common Stock	ASM		4								
ASML Holding NV Common Stock Bearer Form	ASML		4								
AbbVie Inc	ABBV					4					
Accenture PLC Share A	ACN	3									
Advanced Micro Devices	AMD	4	4						3		
Advantech Co. Ltd. Common Stock	2395	3		4							
Adyen NV Ordinary Shares	ADYEN			4						4	
Akamai Technologies Inc.	AKAM			4					3		
Albemarle Corporation	ALB				3				3		
Alibaba Group Holding Ltd Ordinary Shares	9988	3							3		
Allfunds Group PLC	ALLFG									4	
Alnylam Pharmaceuticals Inc.	ALNY					4					
Alphabet Inc Class A	GOOGL	4									
Amadeus IT Group SA Shs	AMS								4		
Amazon.com Inc.	AMZN	3							3		
American Tower Corporation A	AMT			4							
Analog Devices Inc.	ADI		4	4	3			3			
Ansys Inc.	ANSS	3							3		
Applied Materials	AMAT	3	4								
Arcadium Lithium PLC	ALTM				3				4		
Arista Networks Inc Shs	ANET	4		4					4		
AstraZeneca PLC Common Stock	AZN					4					
Atlassian Corp	TEAM	3							4		
Autodesk Inc.	ADSK	3							3		
BE Semiconductor Industries	BESI		4								
BYD Company Ltd Shs A	002594				3				4		
Baidu Inc	9888	4									
Bentley Systems Inc Ordinary Shares - Class B	BSY	3							3		
Bio-Rad Laboratories Inc.Class A Shs	BIO	4									
BlackBerry Ltd	BB			4							
Blackbaud Inc.	BLKB								4		
Boralex Inc. A	BLX				4						
Box Inc Shs -A-	BOX								4		
BridgeBio Pharma Inc Ordinary Shares	BBIO					4					
Bristol-Myers Squibb Company	BMJ					4					
Broadcom Inc Shares	AVGO	4	4	3					4		
Brookfield Renewable Corp	BEPC				4						
CRISPR Therapeutics Ltd	CRSP					4					
Cadence Design Systems	CDNS	3	4						3		
Cellnex Telecom S.A. Shs	CLNX			4							
China Longyuan Power Group Corp Ltd Common Stock H	916				4						
China Resources Power Hldgs	836				4						
China Three Gorges Renewables (Group) Co Ltd Class A	600905				4						
Chugai Pharmaceutical	4519					4					
Cisco Systems Inc.	CSCO			4					3		

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Cloudflare Inc Shs	NET										
Cognizant Technology Solutions Corporation A	CTSH										
Coinbase Global Inc Ordinary Shares - Class A	COIN										
Constellation Software Inc.	CSU										
Corning Inc.	GLW										
Corporacion Acciona Energias Renovables SA	ANE										
CrowdStrike Holdings Inc Ordinary Shares - Class A	CRWD										
Crown Castle Inc	CCI										
Daifuku Co Ltd	6383										
Daiichi Sankyo Co Ltd Common Stock	4568										
Danaher Corporation	DHR										
Dassault Systemes SE Shs	DSY										
Datadog Inc shs A	DDOG										
DocuSign Inc Ordinary Shares	DOCU										
Dropbox Inc Shs A	DBX										
DuPont de Nemours Inc Regs Shs	DD										
Dynatrace Inc Shs	DT										
EDP Renovaveis	EDPR										
EPAM Systems Inc Common Stock	EPAM										
EchoStar Corporation Class A	SATS										
Elastic N.V Ordinary Shares	ESTC										
Eli Lilly & Co	LLY										
Enphase Energy Inc Common Stock	ENPH										
F5 Inc	FFIV										
Fanuc Corp Common Stock	6954										
First Solar Inc.	FSLR										
Fortinet Inc.	FTNT										
GSK PLC Common Stock	GSK										
Ganfeng Lithium Group Co Ltd common stock Class A	002460										
Garmin Ltd Namen-Akt	GRMN										
Gen Digital Inc	GEN										
GlobalWafers Co Ltd Shs	6488										
Gotion High-tech Co Ltd Shs A	002074										
Guidewire Software Inc Common Stock	GWRE										
Harmonic Drive Systems	6324										
HubSpot Inc Shs	HUBS										
IGO Ltd Ordinary Share	IGO										
Illumina Inc.	ILMN										
Infineon Technologies	IFX										
Infosys Ltd Common Stock	500209										
Infrastrutture Wireless Italiane S.p.A.	INW										
Innovent Biologics Inc	1801										
Intel Corporation Common Stock	INTC										
International Business Machines Corp	IBM										
Intuitive Surgical Inc.	ISRG										
Ionis Pharmaceuticals Inc shs	IONS										
Jazz Pharmaceuticals PLC Common Stock	JAZZ										
KLA Corp	KLAC										
LG Energy Solution Ltd	A373220										
LONGi Green Energy Technology Co Ltd Shs A	601012										

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Lam Research Corporation	LRCX										
Li Auto Inc Ordinary Shares - Class A	2015										
Lincoln Electric Holdings Inc.	LECO										
Manhattan Associates Inc.	MANH										
MarketAxess Holdings Inc.	MKTX										
Marvell Technology Inc	MRVL										
Mediatek Inc. Common Stock	2454										
Megaport Ltd Shs	MP1										
Melexis	MELE										
Merck & Co Inc Common Stock	MRK										
Mettler-Toledo International Inc.	MTD										
Microchip Technology Inc Common Stock	MCHP										
Micron Technology Inc.	MU										
Microsoft Corp Common Stock	MSFT										
Moderna Inc Shs	MRNA										
MongoDB Inc Shs	MDB										
Monolithic Power Systems Inc.	MPWR										
Motorola Solutions Inc Common Stock	MSI										
Murata Mfg Co. Ltd 100	6981										
NICE	NICE										
NIO Inc Class A	9866										
NVIDIA Corporation	NVDA										
NXP Semiconductors NV Common Stock	NXPI										
Nabtesco	6268										
Nasdaq Inc Shares	NDAQ										
National Silicon Industry Group Co Ltd Class A	688126										
Neoen SA Ordinary Shares	NEOEN										
Nexi SpA Ordinary Shares	NEXI										
Nextracker Inc Ordinary Shares - Class A	NXT										
Nordic Semiconductor	NOD										
Northland Power Inc Common Share	NPI										
Novartis Inc Namen-Akt Registered Shares	NOVN										
ON Semiconductor Corporation	ON										
Ocado Group PLC Common Stock	OCDO										
Okta Inc Registered Shs -A-	OKTA										
Orsted AS Shs	ORSTED										
PTC Inc Common Stock	PTC										
Palantir Technologies Inc Ordinary Shares - Class A	PLTR										
Palo Alto Networks Inc	PANW										
Pfizer Inc.	PFE										
Qiagen NV	QIA										
Qorvo Inc Shs	QRVO										
Qualcomm Inc.	QCOM										
Qualys Inc	QLYS										
Regeneron Pharmaceuticals Inc.	REGN										
Repligen Corporation	RGEN										
Roper Technologies Inc Common Stock	ROP										
SAP SE Common Stock	SAP										
SARTORIUS VZ	SRT3										
SBA Communications Corporation Class A Shs	SBAC										

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SK Hynix Inc	A000660										
STMicroelectronics NV.	STMPA										
Sage Group PLC	SGE										
Salesforce Inc	CRM										
Samsung Electro-Mechanics	A009150										
Samsung SDI	A006400										
Sartorius Stedim Biotech	DIM										
Seagate Technology Holdings PLC	STX										
SentinelOne Inc Class A	S										
ServiceNow Inc	NOW										
Sichuan Tianqi Lithium Industries Inc.	002466										
Siemens Energy AG Ordinary Shares	ENR										
Sino-American Silicon Products	5483										
SiteMinder Ltd	SDR										
Skyworks Solutions Inc.	SWKS										
Smartsheet Inc shs Class A	SMAR										
Snowflake Inc Ordinary Shares - Class A	SNOW										
SoFi Technologies Inc Ordinary Shares	SOFI										
Sociedad Quimica y Minera Pfd B	SQM-B										
Sumco Corp	3436										
Swedish Orphan Biovitrum AB Common Stock	SOBI										
Synopsys Inc	SNPS										
TCL Zhonghuan Renewable Energy Technology Co Ltd	002129										
TDK Corporation	6762										
Taiwan Semiconductor Manufacturing Common Stock	2330										
Taiyo Yuden Co Ltd Shs	6976										
Tata Consultancy Services	532540										
Technology One Limited Ordinary Share	TNE										
Telefonaktiebolaget L M Ericsson Shs B	ERIC/B										
Tenable Holdings Inc Ordinary Shares	TENB										
Tencent Holdings Ltd Common Stock	700										
Teradyne Inc.	TER										
Tesla Inc Common Stock	TSLA										
Texas Instruments Inc.	TXN										
The Trade Desk Inc Shs -A-	TTD										
Tongwei Co.Ltd. A	600438										
Tradeweb Markets Inc Shs	TW										
Tyler Technologies Inc.	TYL										
United Microelectronics Corp. Common Stock	2303										
Varonis Systems Inc	VRNS										
Veeva Systems Inc Shs -A-	VEEV										
Verbund AG Class A	VER										
Vestas Wind Systems AS	VWS										
Waters Corporation	WAT										
Western Digital Corporation	WDC										
Win Semiconductors Corp. Ordinary Shares	3105										
Wipro Ltd.	507685										
Wise PLC Class A	WISE										
WiseTech Global Ltd Shs	WTC										
Worldline SA	WLN										

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SecurityName	Ticker	Theme Exposure:									
		Big Data And Analytics	Nano Technology	Hyperconnectivity	Energy Transition	Healthcare Innovation	Robotics	Next Gen Transportation	Cloud Computing	Fintech Innovation	
XPeng Inc Class A	9868										
Yageo Corp Common Stock	2327										
Yaskawa Electric	6506										
Zscaler Inc shs	ZS										
argenx SE Shs	ARGX										

Added Holdings

Name	Ticker	Previous Reason for Removal	Theme Exposure:									
			Big Data And Analytics	Nano Technology	Hyperconnectivity	Energy Transition	Healthcare Innovation	Robotics	Next Gen Transportation	Cloud Computing	Fintech Innovation	
LG Energy Solution Ltd	A373220	High Rank Security										
Pfizer Inc.	PFE	High Rank Security										
Lincoln Electric Holdings Inc.	LECO	High Rank Security										
Alibaba Group Holding Ltd Ordinary Shares	9988	High Rank Security										
Corning Inc.	GLW	High Rank Security										
Tencent Holdings Ltd Common Stock	700	High Rank Security										
American Tower Corporation A	AMT	High Rank Security										
Siemens Energy AG Ordinary Shares	ENR	High Rank Security										
GlobalWafers Co Ltd Shs	6488	High Rank Security										
Sino-American Silicon Products	5483	High Rank Security										
Sumco Corp	3436	High Rank Security										
F5 Inc	FFIV	High Rank Security										
Megaport Ltd Shs	MP1	High Rank Security										
Danaher Corporation	DHR	High Rank Security										
Nasdaq Inc Shares	NDAQ	High Rank Security										
Motorola Solutions Inc Common Stock	MSI	High Rank Security										
The Trade Desk Inc Shs -A-	TTD	High Rank Security										
Garmin Ltd Namen-Akt	GRMN	High Rank Security										
China Three Gorges Renewables (Group) Co Ltd Class A	600905	High Rank Security										
Neoen SA Ordinary Shares	NEOEN	High Rank Security										
Chugai Pharmaceutical	4519	High Rank Security										
Smartsheet Inc shs Class A	SMAR	Addition to Universe										
EchoStar Corporation Class A	SATS	Addition to Universe										
Allfunds Group PLC	ALLFG	Addition to Universe										
BridgeBio Pharma Inc Ordinary Shares	BBIO	Addition to Universe										
Bentley Systems Inc Ordinary Shares - Class B	BSY	Addition to Universe										
EPAM Systems Inc Common Stock	EPAM	Addition to Universe										
National Silicon Industry Group Co Ltd Class A	688126	Addition to Universe										
Repligen Corporation	RGEN	Addition to Universe										
Bio-Rad Laboratories Inc.Class A Shs	BIO	Addition to Universe										
Nexttracker Inc Ordinary Shares - Class A	NXT	Addition to Universe										
IGO Ltd Ordinary Share	IGO	Addition to Universe										
SiteMinder Ltd	SDR	Addition to Universe										
Constellation Software Inc.	CSU	Addition to Universe										
Gotion High-tech Co Ltd Shs A	002074	Addition to Universe										

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Added Holdings

			Theme Exposure:									
			4	3	2	1						
Name	Ticker	Previous Reason for Removal	Big Data And Analytics	Nano Technology	Hyperconnectivity	Energy Transition	Healthcare Innovation	Robotics	Next Gen Transportation	Cloud Computing	Fintech Innovation	
Tenable Holdings Inc Ordinary Shares Wipro Ltd.	TENB	Addition to Universe										

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Removed Holdings

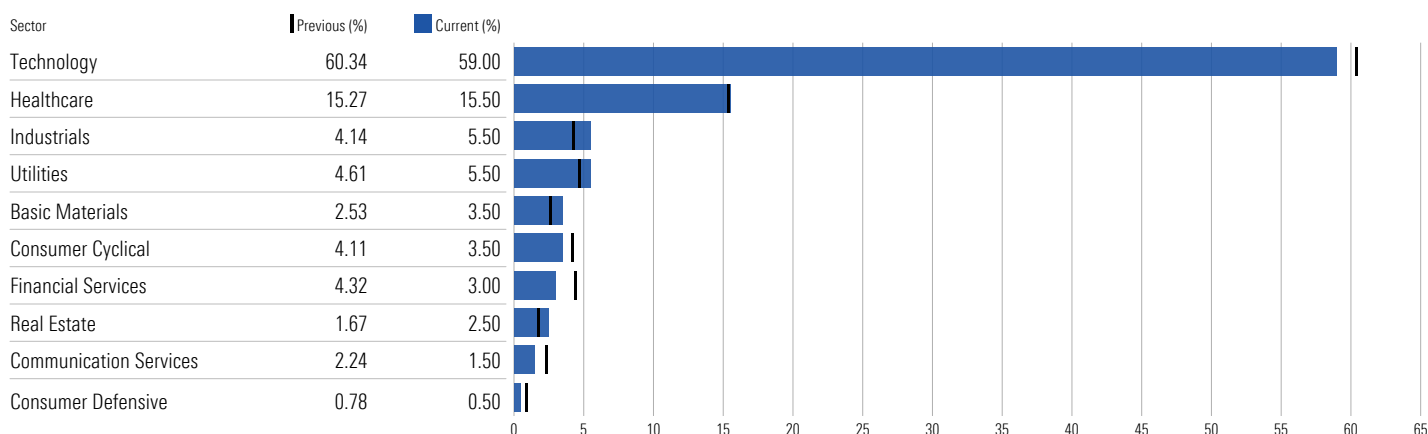
Theme Exposure:



Name	Ticker	Reason for Removal	Big Data And Analytics	Nano Technology	Hyperconnectivity	Energy Transition	Healthcare Innovation	Robotics	Next Gen Transportation	Cloud Computing	Fintech Innovation
Biomarin Pharmaceutical Inc.	BMRN	High Rank Security									
NextEra Energy Inc Common Stock	NEE	High Rank Security									
SEI Investments Company	SEIC	High Rank Security									
ASMPT Ltd	522	High Rank Security									
Cogent Communications Holdings Inc Common Stock	CCOI	High Rank Security									
Capgemini SE Shs	CAP	High Rank Security									
FactSet Research Systems Inc.	FDS	High Rank Security									
Chart Industries Inc.	GTLS	High Rank Security									
SOITEC	SOI	High Rank Security									
Revvity Inc	RVTY	High Rank Security									
Hewlett Packard Enterprise Co Shares	HPE	High Rank Security									
Siemens AG	SIE	High Rank Security									
Denso Corporation	6902	High Rank Security									
Keysight Technologies Inc	KEYS	High Rank Security									
CGI Inc Shs A	GIB/A	High Rank Security									
Biogen Inc Shs	BIIB	High Rank Security									
Nokia Corporation Common Stock	NOKIA	High Rank Security									
Toast Inc Class A	TOST	High Rank Security									
Merck KGaA	MRK	High Rank Security									
Twilio Inc Shs -A-	TWLO	High Rank Security									
Incyte Corporation	INCY	High Rank Security									
Aptiv PLC Shs	APTIV	Forced Exclusion									
Hubbell Inc shs	HUBB	Forced Exclusion									
Tokyo Electron Ltd	8035	Dropped from the Parent Index									
Five9 Inc Shs	FIVN	Dropped from the Parent Index									
SolarEdge Technologies Inc Shs	SEDG	Dropped from the Parent Index									
Genscript Biotech Corporation Shs Unitary 144A/Reg S											

Morningstar® Exponential Technologies IndexSM

Sector Exposure



Country Exposure

