

**CHPX LN**

IE0000ZL1RD2

# Global X AI Semiconductor & Quantum UCITS ETF

THEMATICS



A fund that seeks to invest in companies that are positioned to benefit from the growth and advancement of the artificial intelligence (AI) semiconductor and quantum computing ecosystems.

For Professional Investors only.

## INTRODUCTION

Artificial intelligence (AI) continues to represent one of the most significant shifts in modern technology, influencing industries from software and semiconductors to manufacturing and healthcare.<sup>1</sup> At the same time, quantum computing is emerging as a breakthrough technology that could prove critical in tackling some of society's most complex problems across data simulation, drug discovery, national security, supply chains, and more.<sup>2</sup> If adoption expands, demand for high-performance computing hardware capable of supporting complex AI models may increase substantially.<sup>3</sup>

Semiconductors play a central role in this process. These components power AI training and inference, as well as emerging technologies such as quantum computing.<sup>4</sup> Advances in chip design and manufacturing have become critical to improving efficiency, speed, and energy performance across a range of AI applications.<sup>5</sup>

CHPX LN is designed to reflect the performance of companies involved in AI semiconductors and quantum computing. This includes firms engaged in chip design, manufacturing, and next-generation computing architectures that support the continued evolution of data processing and analysis.

## DID YOU KNOW?

- Global shipments of AI-specific semiconductors are reported to grow from **under 30 million in 2022 to nearly 180 million by 2030**, driven by increased AI adoption across industries.<sup>6</sup>
- The computing power required to train leading AI models has increased by a factor of **over 1,000 times since 2012**, underscoring the potential rising demand for advanced processing capabilities.<sup>7</sup>
- The **AI semiconductor market** could represent more than **20% of total chip demand by 2030**, reflecting its growing importance within the broader semiconductor industry.<sup>8</sup>
- **Quantum computing technologies** could contribute an estimated **\$1 trillion in economic value by 2035**, with applications in materials science, logistics, and financial modelling.<sup>9</sup>

Capital at Risk. All financial investments involve an element of risk. Therefore, the value of your investment and the income from it will vary and your initial investment amount cannot be guaranteed.



### FUND DETAILS

Inception Date	25 November 2025
Total Expense Ratio	0.35%
Ongoing Charges	0.35%
Primary ISIN	IE0000ZL1RD2
Primary Ticker	CHPX LN
SFDR Classification	Article 6
Underlying Index	Mirae Asset AI Semiconductor & Quantum Index

### FUND INVESTMENT APPROACH

- The Global X AI Semiconductor & Quantum UCITS ETF (CHPX LN) seeks to invest in companies that are positioned to potentially benefit from the growth and advancement of the artificial intelligence (AI) semiconductor and quantum computing ecosystems. This includes companies involved in the design and manufacturing of AI semiconductors; the development and production of AI-focused compute systems, data centre infrastructure and equipment; and the development and commercialisation of quantum computing technologies.
- Mirae Asset Global Indices has identified the following four sub-themes that aim to collectively capture the AI semiconductor and quantum computing value chain:
  - AI Semiconductors** – companies engaged in the design and manufacture of GPUs, CPUs, ASICs, networking chips, memory, and other components used in AI model training and inference.
  - Compute Systems Enablers** – companies developing AI-focused hardware and software systems, including servers, networking, integration and next-generation computing and storage technologies.
  - Data Centre Infrastructure and Equipment** – companies providing advanced cooling, power management, and other specialised systems essential for AI data centre efficiency and performance.
  - Quantum Computing Technologies** – companies developing quantum computing systems designed to solve problems beyond the capabilities of classical systems.
- Only “Pure-Play” companies earning greater than or equal to 50% of their revenue from one or more of these sub-themes are eligible for inclusion.
- Constituents are weighted by free-float market capitalisation, subject to a 10% cap per security.
- The index is reconstituted and rebalanced semi-annually.

### WHAT IS QUANTUM COMPUTING?

Sources: Global X ETFs illustration with information derived from IBM’s “What is Quantum Computing?” (2025)

CLASSIC COMPUTING	QUANTUM COMPUTING
<p>Performs calculations via transistors, which can be 0 or 1, but not at the same time</p>	<p>Performs calculations via qubits, which can be 0 or 1 at the same time</p>
<p>Power increases in a 1:1 ration with the number of transistors</p>	<p>Power increases exponentially in proportion to the number of qubits</p>
<p>Low error rates. Computers operate at room temperature</p>	<p>High error rates, computers need to be kept extremely cold</p>
<p>Used for regular day-to-day processing</p>	<p>Used for complex optimisation problems, data analysis and simulations</p>

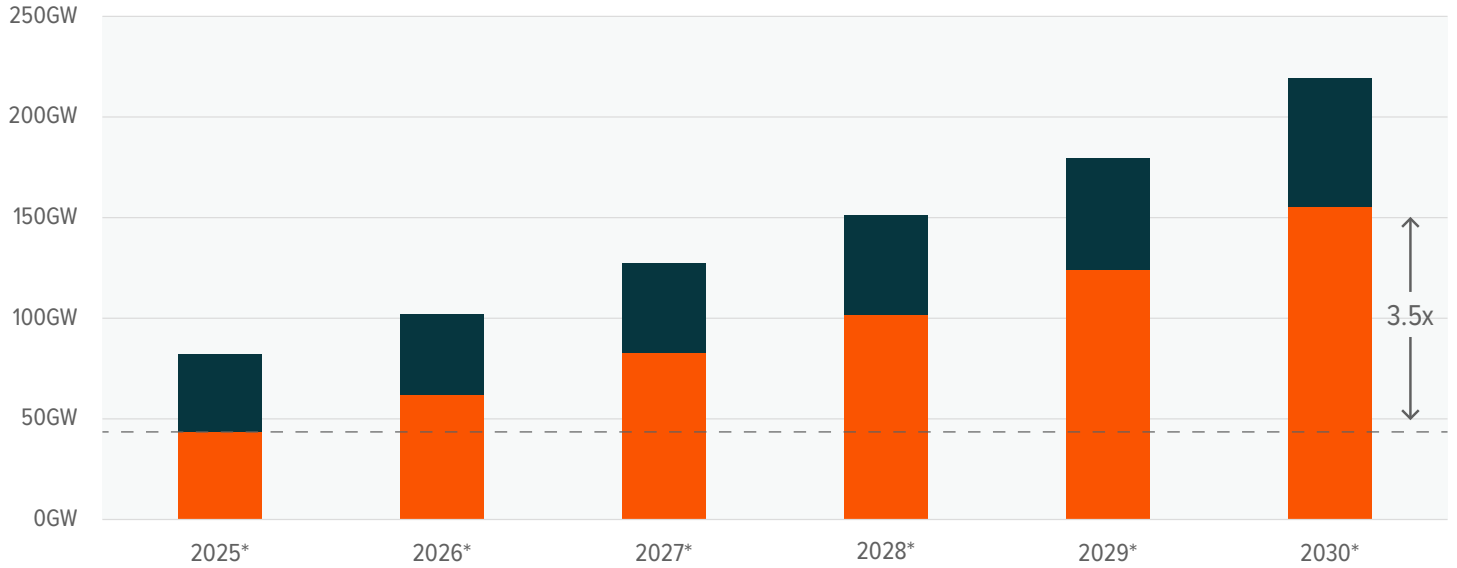


## AI DATA CENTRE CAPACITY COULD GROW UP TO 3.5X BY 2030 – POTENTIALLY BOOSTING DEMAND FOR SEMICONDUCTOR

Source: Global X Illustration, with data derived from McKinsey (April 2025)

### Global Data Centre Capacity

AI Workload Non AI Workload



\*Forecast

Prospectuses and Key Investor Information Documents (KIID) for this ETF are available in English at [www.globalxetfs.eu/funds/chpx/](http://www.globalxetfs.eu/funds/chpx/)  
 For more information on the Index, please visit [Mirae](#)



- 1 Science Direct, AI revolutionizing industries worldwide: A comprehensive overview of its diverse applications, December 2024
- 2 EY.com, Beyond the Hype: A Critical Look at Quantum Computing's Potential for Business and Society in Asia-Pacific, 2023
- 3 Science Direct, Factors influencing the adoption intent of quantum computing in enterprises: An innovation adoption process perspective, February 2025
- 4 Micro Chip USA, The Intersection of AI and Semiconductors, March 2025
- 5 PTC.com, Semiconductor Industry Trends and the Future of Manufacturing, October 2025
- 6 Deloitte, 2024
- 7 OpenAI, 2023
- 8 McKinsey & Company, 2022
- 9 Boston Consulting Group, 2023

## Disclosures

The Global X UCITS ETFs are regulated by the Central Bank of Ireland.

This is a marketing communication. Please refer to the relevant prospectus, supplement, and the Key Information Document ("KID") of the relevant UCITS ETFs before making any final investment decisions. Investors should also refer to the section entitled "Risk Factors" in the relevant prospectus of the UCITS ETFs in advance of any investment decision for information on the risks associated with an investment in the UCITS ETFs, and for details on portfolio transparency. The relevant prospectus and KID for the UCITS ETFs are available in English at [www.globalxetfs.eu/funds](http://www.globalxetfs.eu/funds).

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## Information for Investors in Switzerland

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