Semiconductor Industry Analysis and Insight

July 9, 2025

# Above Average May Chip Growth Chip Stocks Outperform as 1Q Results Beat Lowered Expectations

The good news is that AI continues to drive growth across the semiconductor industry, May industry statistics were well above average, and chip sector share prices have rallied as most companies reported 1Q results that exceeded previously lowered expectations. The bad news is that AI growth is tempering amid lackluster 2Q guidance for revenue growth, and the share price rally over the last two months offset a correction that I had hoped would offer at least some attractive fundamental equity valuations. And, oh yeah—don't forget geopolitical economic uncertainty.

AI single-handedly accounts for chip industry revenue growth expected at +11% this year driven by NVDA and I continue to hope that AI cap ex euphoria ahead of revenue streams and profits lasts long enough for PCs, smartphones, automotive and the rest of the semiconductor end-markets to return to growth. In the meantime, the SOX index remains over-extended versus the S&P500 and most fundamental valuations across the sector are not attractive. I would still be extremely selective considering potential chip sector opportunities at this time.

Geopolitical Gymnastics: One of the more entertaining Geopolitical Gymnastic performances over the last month came from EDA supplier Synopsis (SNPS) who announced April-ending FY2Q earnings on May 28, suspended July-quarter guidance the following day due to US export restrictions to China, and then announced those restrictions had been rescinded on July 2—but did not reinstate quarterly guidance. Hence, geopolitical uncertainty.

Recall the new normal chaos is every semiconductor company preserving its supply chain and sales in a variety of ad hoc fashions by skipping around ever-evolving US, Chinese and European technology sanctions, embargoes and tariffs. 'De-Sinicization' describes Chinese and Taiwanese companies expanding operations to more politically neutral countries like Singapore, while 'Geopolitically Dependable Capacity' describes TI's strategy to support various customer supply requirements from a variety of locales. 'Indigenization' includes government grants and loans incentivizing domestic semiconductor operations that includes multiple billions of dollars from the US, China, Japan, India, South Korea, Malaysia, Taiwan and Spain. The Chinese grow-your-own category is referred to as 'Huawei-ization' due to that company's political isolation from the US—and this phenomenon appears to have accelerated the most in the last couple of months.

Universe Deviations: Recall that my US-equity-based Tokeneke Universe does not include very large international players (Samsung, SK Hynix, Kioxia, MediaTek, Infineon, Renesas, Rohm, Winbond, Macronix, Nanya, Novatek, Realtek) although it does include wafer foundries (TSMC, UMC, GlobalFoundries, Skywater Tech, Tower Semi) and IP companies (Rambus, Ceva, InterDigital, Arm, Adeia) that count as costs associated with manufacturing rather than industry sales. Note my Universe on Page 5. I also normalize fiscal quarters to the best fitting two out of three months, and I don't segregate non-semiconductor corporate revenue. Unreported acquisition stub periods and mergers exiting the sector can also make a difference.

While these differences compared to semiconductor industry sales are significant, most US-based investors experience the sector from the Tokeneke Universe perspective. The Philadelphia Semiconductor Index Option (SOX) also includes wafer foundries, IP companies and equipment firms as well.

So, what does this mean? Well, near-term it means that my Universe and US equities will likely outperform industry sales statistics due to AI 'double-dipping' as NVDA and other chip company sales are boosted by suppliers that include wafer foundries (TSMC), IP firms, assembly and test providers, and equipment suppliers.

**Above Average May Growth:** Worldwide chip industry revenues for May grew by an above average +3.5% sequentially on a three-month rolling average basis, according to statistics released by the Semiconductor Industry Association (SIA) on Monday. I am surprised at the relative strength given the lackluster 2Q guidance across my Universe during the 1Q earnings season announcements, although the strength is consistent with reports expecting strength earlier in the season. May has averaged growth of +1.9% with a high of +6.5%, a low of -7.5%, and six declines in the last 39 years including only one in the last 20 according to industry statistics. Asia-Pacific led with growth of +6.0% followed by China at +5.4% and Europe at +4.0%. The Americas and Japan lagged with gains of +0.5% and +0.2%, respectively.

August's release of June and 2Q statistics should fall below average given my somewhat anemic 2Q Universe outlook. June has averaged growth of +0.7% with a high of +5.3%, a low of -9.2%, and 16 declines in the last 39 years including six in the last 17 according to industry statistics.

**2Q Outlook Below Average:** The specific weighted average guidance for revenue across my Universe during 1Q earnings announcements calls for a sequential increase of +3.4% this quarter (2Q), ranging from +0.9% to +5.9%, although the expected mid-point of growth steadily eroded from an initial +6.9% as the earnings season progressed. The 2Q is seasonally a period of recovery for the year with average revenue growth of +4.2%, a high of +20.0%, a low of -19.9%, and only eight declines in the last 39 years—including two of the last 13, per industry statistics.

Offerings, an Acquistion and a Bankruptcy Restructuring: Last month SiTime closed a follow-on offering of just over 2M shares at \$200 each netting \$387M for the company, Netlist announced a \$12M registered direct offering of 17M shares and warrants for twice as many shares at \$0.70 each (after winning \$445M in damages from Micron Technology from a long running patent infringement case), Qualcomm announced the acquisition of Alphawave Semi out of the UK for \$2.4B, and Wolfspeed reorganized debt and equity under a pre-packaged plan (bankruptcy?) to sustain operations. On the more creative side, Western Digital will exchange 18.5M shares of SNDK equity from its recent spin-out of Sandisk to pay off certain WDC debt, and Sequans Communications announced a \$384M offering of debt and equity private offerings to buy Bitcoin for a treasury initiative.

June Chip Sector Rally Leads to Outperformance: June semiconductor sector share prices outperformed broader equity markets for the second month in a row as most companies exceeded previously lowered expectations during 1Q earnings season announcements allowing the SOX to (finally) outperform year-to-date, although my Universe continues to lag. During June the Philadelphia Semiconductor Index Option (SOX) gained +16.6% while 52 out of 57 stocks in my Universe advanced by an average of +13.5%. The NASDAQ, S&P500 and DOW were up by +9.6%, +6.2%, and +3.9%, respectively.

| Valid |                 |          |        |        |  |
|-------|-----------------|----------|--------|--------|--|
|       | Winners (52/57) |          | Losers |        |  |
|       | ALGM            | 34.9%    | WOLF   | -66.5% |  |
|       | INDI            | 34.3%    | SQNS   | -14.6% |  |
|       | MU              | 30.5%    | NLST   | -3.6%  |  |
|       | ARM             | 29.9%    | PI     | -2.6%  |  |
|       | MRVL            | 28.6%    | ALAB   | -0.3%  |  |
|       | average stoo    | k +13.5% | SOX +  | 16.6%  |  |

June

| Winners | (48/57) | Losers |        |  |
|---------|---------|--------|--------|--|
| NVTS    | 219.5%  | WOLF   | -87.0% |  |
| INDI    | 74.9%   | SQNS   | -30.0% |  |
| GSIT    | 65.5%   | NLST   | -27.5% |  |
| AVGO    | 64.6%   | CEVA   | -14.2% |  |
| ALAB    | 51.5%   | PXLW   | -7.1%  |  |
|         |         | 2014   | 00.00/ |  |

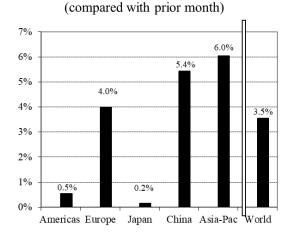
|  |                 |       | וט     |        |  |  |
|--|-----------------|-------|--------|--------|--|--|
|  | Winners (29/57) |       | Losers |        |  |  |
|  | NVTS            | 83.5% | WOLF   | -94.0% |  |  |
|  | ALGM            | 56.4% | SQNS   | -57.9% |  |  |
|  | MU              | 46.4% | QUIK   | -45.5% |  |  |
|  | SIMO            | 39.1% | ALAB   | -31.7% |  |  |
|  | ARM             | 31.1% | AOSL   | -30.7% |  |  |
|  |                 |       |        |        |  |  |

| Indices |       |       |       |
|---------|-------|-------|-------|
|         | Jun   | 2Q    | YTD   |
| SOX     | 16.6% | 29.9% | 11.4% |
| SMH     | 16.3% | 31.9% | 15.2% |
| NASDAQ  | 6.6%  | 17.7% | 5.5%  |
| S&P500  | 5.0%  | 10.6% | 5.5%  |
| DOW     | 4.3%  | 5.0%  | 3.6%  |
|         |       |       |       |

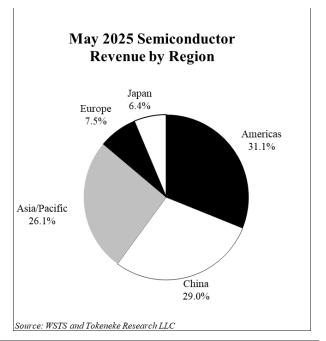
Chip Stocks Still Scary: AI is a huge opportunity but growth is tempering while the rest of the semiconductor industry's markets remain moribund as hope for a recovery from a bottoming is complicated by geopolitical uncertainty. In the meantime, the SOX index remains way over-extended versus the S&P500 (note the relative premium in the chart on Page 4), and most fundamental valuations across the sector are not attractive. I had hoped chip sector underperformance earlier this year would offer potential equity opportunities. But then shares rallied last quarter as most companies exceeded lowered expectations. Hence, I would remain extremely selective considering chip sector opportunities at this time.

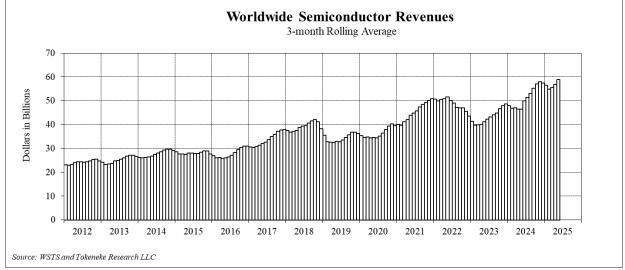
—Dan K. Scovel Semiconductor Analyst

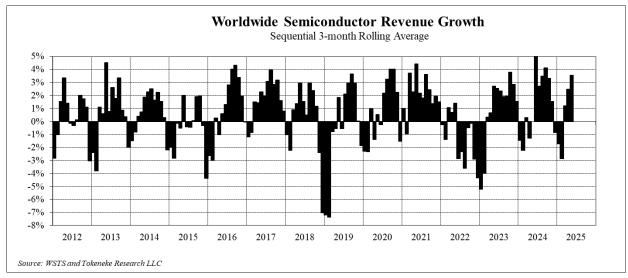
# May 2025 Semiconductor Growth by Region

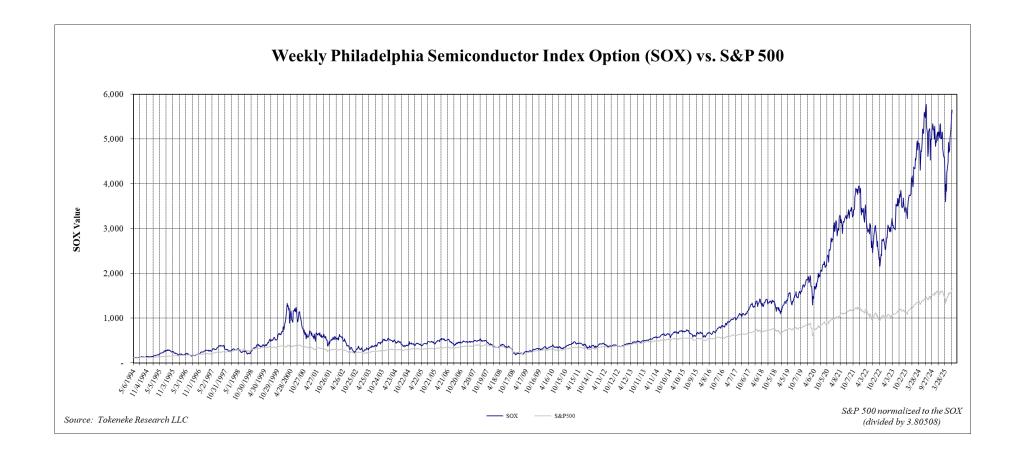


Source: WSTS and Tokeneke Research LLC









## Tokeneke Research LLC

Semiconductor Industry Analysis and Insight

## Company Overview

#### The Tokeneke Universe:

57 companies/tickers as of 6/10/25.

| Company                      | Ticker | Company                        | Ticker | Company                                | Ticker |
|------------------------------|--------|--------------------------------|--------|--|--------|
| Adeia                        | ADEA   | Mobileye Global                | MBLY   | QuickLogic                             | QUIK   |
| Analog Devices               | ADI    | Microchip Technology           | MCHP   | Rambus                                 | RMBS   |
| Astera Labs                  | ALAB   | Monolithic Power Systems (MPS) | MPWR   | Silicon Motion                         | SIMO   |
| Allegro Microsystems         | ALGM   | Everspin Technologies          | MRAM   | SiTime                                 | SITM   |
| Ambarella                    | AMBA   | Marvell                        | MRVL   | SkyWater Technology                    | SKYT   |
| Advanced Micro Devices (AMD) | AMD    | M/A-COM Technology             | MTSI   | Silicon Laboratories                   | SLAB   |
| Alpha Omega Semiconductor    | AOSL   | Micron Technology              | MU     | Semtech                                | SMTC   |
| Arm Holdings                 | ARM    | MagnaChip                      | MX     | Sandisk                                | SNDK   |
| Broadcom                     | AVGO   | MaxLinear                      | MXL    | Sequans Communications                 | SQNS   |
| CEVA                         | CEVA   | Netlist                        | NLST   | STMicroelectronics                     | STM    |
| Cirrus Logic                 | CRUS   | NVIDIA                         | NVDA   | Skyworks Solutions                     | SWKS   |
| Diodes                       | DIOD   | Navitas Semiconductor          | NVTS   | Synaptics                              | SYNA   |
| GlobalFoundries              | GFS    | NXP Semiconductors             | NXPI   | Tower Semiconductor (TowerJazz)        | TSEM   |
| GSI Technology               | GSIT   | ON Semiconductor               | ON     | Taiwan Semiconductor Mfg. Corp. (TSMC) | TSM    |
| Himax Technologies           | HIMX   | Impinj                         | PI     | Texas Instruments (TI)                 | TXN    |
| InterDigital                 | IDCC   | Power Integrations             | POWI   | United Microelectronics Corp. (UMC)    | UMC    |
| Indie Semiconductor          | INDI   | Pixelworks                     | PXLW   | Valens Semiconductor                   | VLNS   |
| Intel                        | INTC   | QUALCOMM                       | QCOM   | Vishay Intertechnology                 | VSH    |
| Lattice Semiconductor        | LSCC   | Qorvo                          | QRVO   | Wolfspeed                              | WOLF   |

### The Company

Tokeneke Research is an independent research firm specializing in semiconductor industry business issues, providing fundamental research focused on US equities across all market capitalizations within the sector to investors. The company was founded in 2005 and is based in Connecticut.

### My Background

I have an electrical engineering degree, nearly 12 years of semiconductor industry experience, and was on Wall Street for nearly eight years where I was selected as Best On The Street semiconductor analyst by The Wall Street Journal in 2002.

I obtained my undergraduate BS degree in electrical engineering from the University of Washington, and my MBA from Santa Clara University. My industry experience consists of nearly 12 years in various technical sales and marketing roles at four different semiconductor firms located in Silicon Valley beginning with Advanced Micro Devices in 1984, followed by two small start-up companies, and ending at Cirrus Logic where I supported the firm's Japanese market development. I joined Fahnestock & Co. as a senior semiconductor analyst in 1996 and was recruited by Needham & Co. in April 2000.

My formal coverage as a sell-side analyst included the following: AMD, ALSC, ALTR, ARTI, ATML, CUBE, CY, ESST, GNSS, INTC, ISSI, LSI, MOSY, MU, OIIM, OVTI, RMTR, SIII, SMSC, STEC, SVTG, TDFX, TSRA, TXN, and ZRAN.

—Dan K. Scovel Semiconductor Analyst

Tokeneke Research LLC Rowayton, CT 06853 dscovel@tokenekeresearch.com www.tokenekeresearch.com 203-554-4621

Copyright © 2025 Tokeneke Research LLC. All rights reserved. This report is for information purposes only and does not constitute a solicitation or an offer to buy or sell any security or to participate in any investment or trading strategy. Opinions expressed in this report reflect the judgment of Tokeneke Research LLC on the topics addressed as of the date of the report and are subject to change without notice. Tokeneke Research LLC makes every effort to use reliable and comprehensive information but makes no representation that the information in this report is accurate or complete, nor does it undertake to update or revise this report at any time or for any reason. This report contains forward-looking statements that involve risks and uncertainties, both known and unknown, as well as assumptions that, if they do not fully materialize or prove incorrect, could cause actual results to differ materially from those expressed or implied by such forward-looking statements. Actual results and trends may differ materially from historical results or those projected in any such forward-looking statements depending on a variety of factors. This report does not provide individually tailored investment advice and has been prepared without regard to the specific individual financial situation, objectives and needs of those who receive it. Securities discussed in this report may not be suitable for the reader. Tokeneke Research LLC and/or Dan Scovel may have a long or short position in the securities of a company or companies mentioned in this report and, at any time, may change that position. Tokeneke Research LLC accepts no liability whatsoever for any loss or damage of any kind arising out of the use of any part, or all, of this report. All company and product names mentioned in this report may be trademarks or registered trademarks of their respective holders and are used for identification purposes only. Reproduction or distribution of this report, even for internal distribution, is strictly prohibited unless specifi