

## **Semiconductors Enter the Volatile Flatlands Counter-Seasonal Cycle Softens, But Shares Rally Anyway**

The bad news is that the semiconductor industry has recently entered a counter-seasonal cyclical slowdown of unknown depth and duration, although I expect a shallow depth for the next two to three quarters. The good news is that the sector appears to be leading an asset allocation rotation back into equities following QE2, U.S. elections and expected tax relief extensions. The frustration is that we may see a tug-of-war of fits and starts in share price movement between fundamental uncertainty and favorable asset allocation over the next several weeks.

**October Flat-Lines:** Semiconductor industry statistics for October were released last week, and the month was sequentially flat as strength in Europe was offset by incremental weakness in Asia-Pacific. Worldwide flatness during the month reflected fairly significant relative weakness when compared to average growth over the last 20 years of +2.8% with a high of +6.8% and a low of -2.0%, which was also the only time October declined. Europe rocketed forward with growth of +3.3% and Japan eked out a gain of +0.3%, while The Americas were flat and European and Japanese gains were offset by a decline of -0.9% across the much larger Asia-Pacific region.

I expect November statistics next month also to reflect weakness amid the current business slowdown. November is usually a bit slower than October with average growth of +2.1%, a high of +6.3%, a low of -7.2%, and negative growth only twice in the last 20 years. Flat is probably the best that could be expected in the current environment, although an incremental contraction could be very possible.

**Tepid 4Q Outlook:** Company guidance for 4Q based on 3Q earnings announcements is calling for a plateau in business this quarter. The weighted industry revenue guidance from over 100 companies in the Tokeneke Universe centers on growth of +1.0% with a range from -1.5% to +3.5%, which does not compare favorably with the average growth over the last 20 years of 2.4% with a high of 16.0%, a low of -24.2%, and declining sales in six of those years. Four mid-quarter updates as of this writing (ALTR, LSCC, MCHP and TXN) have either reiterated guidance or narrowed their ranges.

We are also seeing some interesting cross-currents as this quarter unfolds. Interim reports out of Taiwan have indicated weakness during both October and November, but then a pick-up in orders for December ahead of the Chinese New Year holiday which occurs on February 3, 2011 next year. 4Q has typically been a front-end loaded quarter for the chip industry as many businesses slow or close during the Christmas holiday at the end of December, but the growing influence of Asian consumers may now begin to modify such established norms.

Another metric that concerns me is the difference between weighted-average company guidance for 4Q, and average company guidance. If I just calculate the average expected change in revenues this quarter on a percentage basis, the companies in the Tokeneke Universe are expecting a decline of -1.5% with a range of -4% to +1%. And this is noticeably more bear-ish than the weighted expectation of +1.0% with a range of -1.5% to +3.5%. This spread is explained by more positive relative outlooks by nine companies in the billion-dollar revenue club: ALTR, ATML, BRCM, INTC, LSI, QCOM, SNDK, STM and SWKS.

Why is this? Are the rich getting richer, or are they just oblivious? I think they are oblivious. Most companies are being conservative amid limited order visibility, so I don't think the industry will perform as poorly as the average company is guiding on a percentage growth basis. However, at the same time I fear these larger companies as a group may be banking on macro trends of existing backlog and seasonality that could very well prove to be at least somewhat optimistic in the current business environment.

When it's all said and done I think 4Q will play-out much like 3Q did as a triumph of tempered expectations. It's going to be a pretty flat quarter and that will be a relief if you are expecting a dip—and a disappointment if you are expecting anything close to what has been traditional seasonal strength.

**A Slow 2011:** While 2010 is shaping up to be a strong recovery year with worldwide sales expected to grow by 33% after the disastrous 2009, 2011 is shaping up to be a year of very modest single-digit growth as a result of two strong headwinds: the mathematical curse coming off a year of strength; and a slow and uncertain beginning to the

period. The adjacent table identifies revenue growth rates from a number of market research organizations that are clearly centered on mid-single digit growth for the year.

**Industry Sales Growth Forecasts**

Source	2011
SIA	6.0%
WSTS	4.5%
Gartner	4.6%
iSupply	5.1%
VLSI	4.4%
Semico	9.5%

**Chip Sector Rally:** Share prices across the semiconductor sector have been outperforming the broader equity markets in a meaningful way. During November the Philadelphia Semiconductor Index Option (SOX) gained 4.7% while the S&P500 and NASDAQ were flat-ish at -0.2% and -0.4%, respectively, and the DOW retreated by -1.0%. All this after a decidedly mixed 3Q earnings announcement season while business conditions have slowed into a period of traditional seasonal strength. So what gives?

Broader macroeconomic issues have been driving share prices for much of this year rather than industry fundamentals, in my opinion, and they continue to do so. I think the chip sector is at the front-end of a financial market rotation away from fixed income, commodities and foreign exchange and back into equities following QE2, the November elections in the US, and recent indications of tax-credit extensions by the current administration.

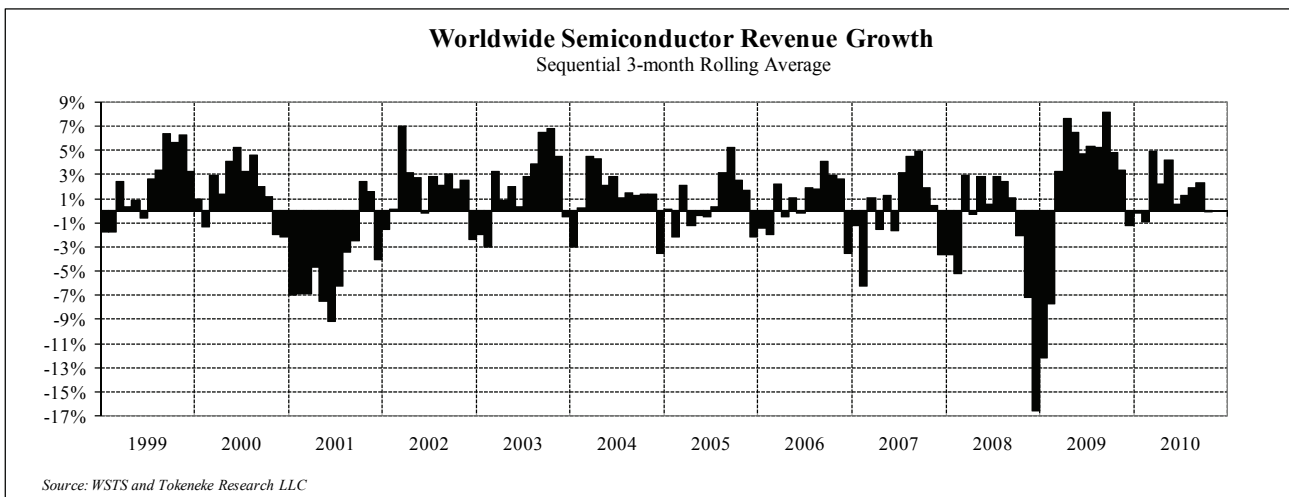
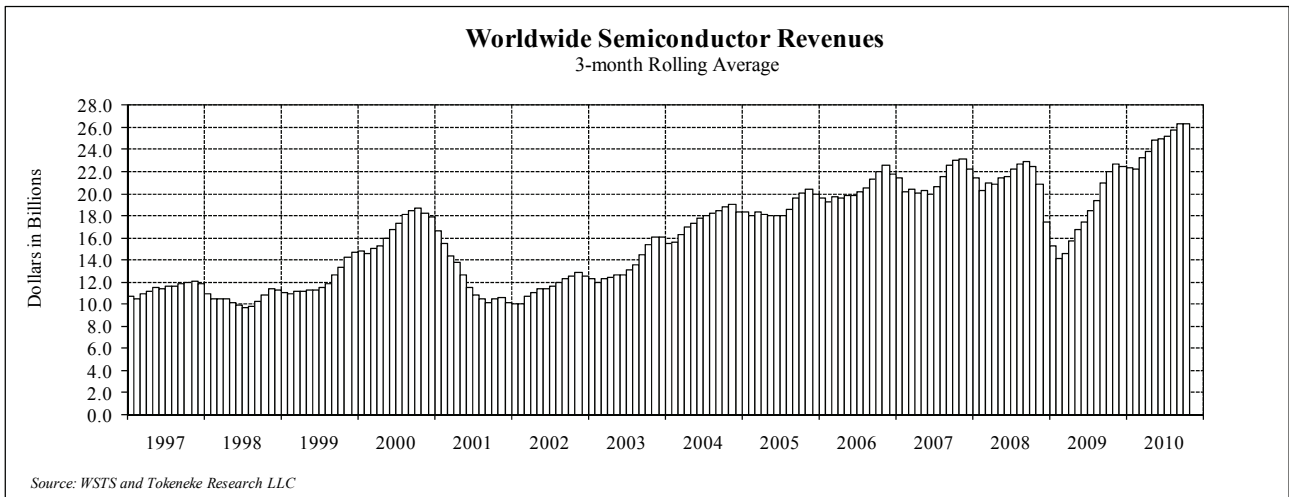
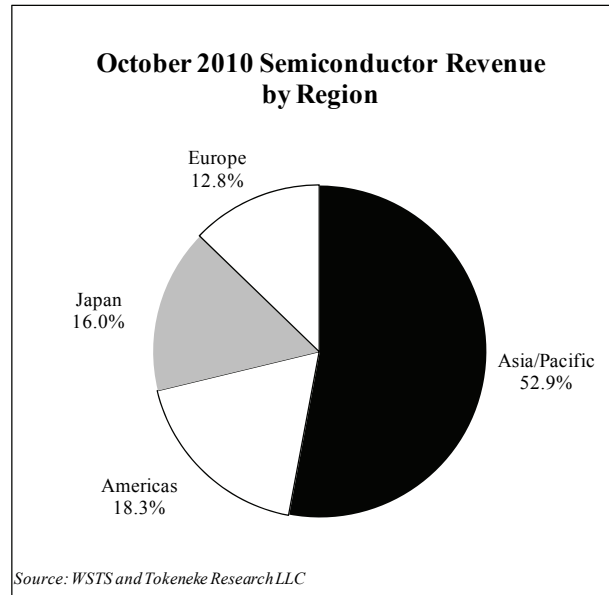
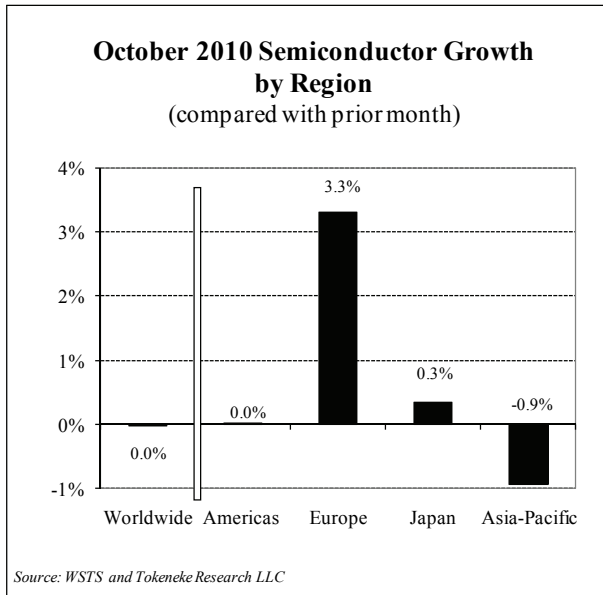
November				QTD (4Q)				YTD				Indices			
Winners (67/104)		Losers		Winners (78/104)		Losers		Winners (63/104)		Losers			Nov	QTD	YTD
IPHI	32.5%	NLST	-25.7%	CEVA	62.2%	INFN	-29.9%	MIPS	211.0%	NLST	-55.5%	SOX	4.7%	11.7%	8.4%
VSH	26.2%	SIMO	-25.7%	SIMG	60.5%	SIMO	-26.2%	SPRD	199.5%	SPWR	-50.8%	SMH	5.3%	12.1%	11.2%
CEVA	25.3%	SMOD	-24.5%	FCS	49.5%	NLST	-22.5%	SIMG	197.3%	CNXT	-41.8%	NAS	-0.4%	5.5%	10.1%
SIMG	24.7%	VIMC	-16.8%	VSH	47.3%	TXCC	-22.4%	ENTR	191.2%	IKAN	-41.7%	S&P500	-0.2%	3.4%	5.9%
FCS	24.7%	MSPD	-15.6%	DIOD	44.5%	MSPD	-19.8%	QUIK	183.4%	ZRAN	-37.7%	DOW	-1.0%	2.0%	5.5%
average stock +3.0%		SOX +4.7%		average stock +10.4%		SOX +11.7%		average stock +24.1%		SOX +8.4%					

**Opportunity to Buy and Trade:** I continue to believe that the depth of the current slowdown in the industry will be fairly shallow due to extremely tight channel sensitivity to inventory, and will feel more like a plateau than a dip before any meaningful uptick occurs with 2H11 seasonal strength. Nevertheless, the truth is that company order visibility is very opaque and neither the depth nor the duration of current weakness is foreseeable at the current time.

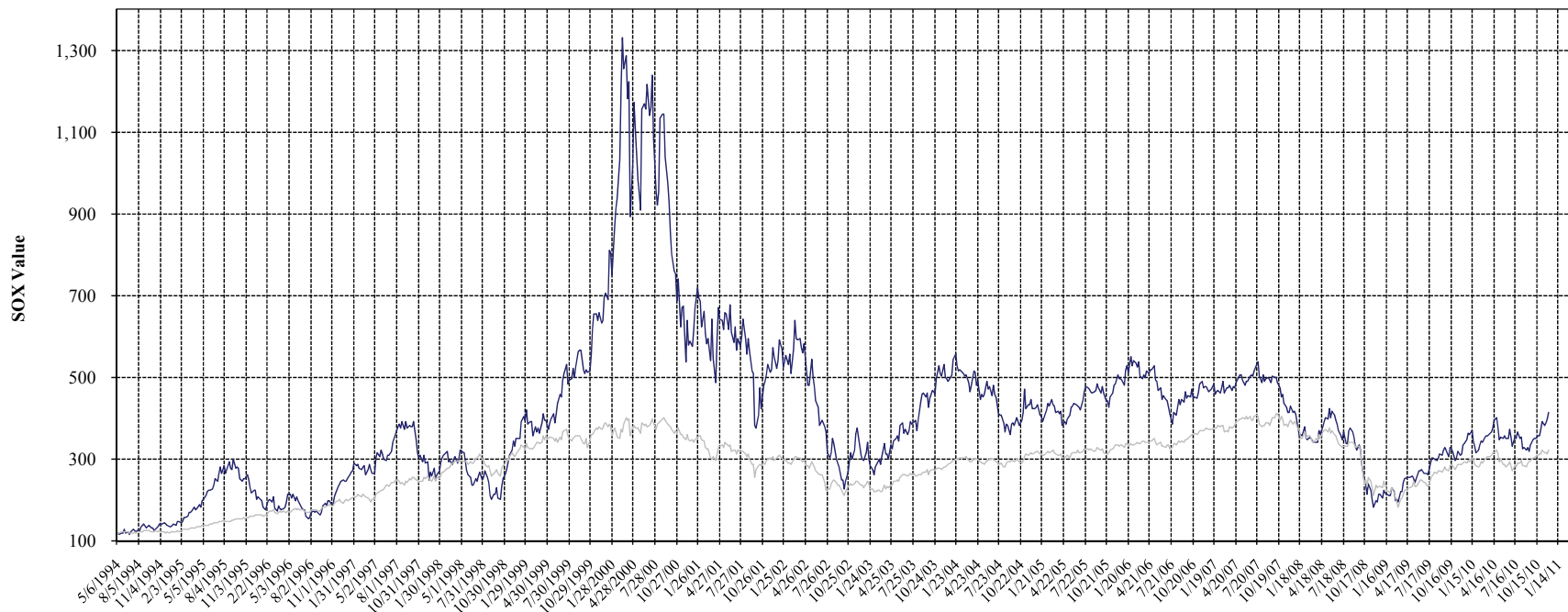
For investors with longer time horizons, say 2 years or more, chip sector equities remain extremely attractive at current valuation levels. Unfortunately, near-term business uncertainty does not bode well for the faint of heart or those investors with shorter time horizons over the next few months. Nevertheless, recently renewed investor enthusiasm for equity vehicles appear to have trumped such fundamental concerns, setting up a situation favorable for both longer-term investors and short-term traders if we experience a period of fits and starts triggered by fundamentals and equity allocations, respectively, as I believe we might.

It's a good time to buy, and may well prove to be a good time to trade. But it may also prove to be a frustrating time to hold. Opportunities exist—at least for investors with longer term time horizons and greater-than-normal appetites for risk and volatility.

—Dan K. Scovel  
Semiconductor Analyst



### Weekly Philadelphia Semiconductor Index Option (SOX) vs. S&P 500



Sources: Tokeneke Research LLC

— SOX — S&P 500

\*S&P 500 normalized to the SOX

## **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.

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## **My Background**

I have an electrical engineering background, nearly 12 years of semiconductor industry experience, and was on Wall Street for nearly eight years where I was selected as the Best On The Street semiconductor analyst for 2002 by The Wall Street Journal, and third-rated Best of the Best across all sectors.

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 Fahnstock & Co. as a senior semiconductor analyst in 1996 and was recruited by Needham & Co. in April 2000.

My formal coverage list as a sell-side analyst included the following equities: 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*

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