

Semiconductor WEEK:

October 14, 2022

An overview of results and conclusions from recent reports at TechInsights

Chip Market Research Services

It's cooling off and the leaves are turning yellow

- Order activity for semiconductor equipment continued to cool off, slipping by nearly two points in the first week of October
- Hyperscale Fabless CapEx

Semiconductor Analytics

Last Week in the Semiconductor Market:

Semiconductor sales slipped 1% last week, narrowing the gap with 2021 levels to -2%. The IC weather improved by 2°F jumping back from Cold to Chilly conditions. Zooming in on DRAM this week, 13-wk MAs growth has been on a free fall, since peaking at 51% the week of March 4, to -19% last week.

TechInsights forecasts DRAM sales will reach \$94B in 2022, with Y/Y decline of 2% which drops further to -7% in 2023. TechInsights' IC Supply/Demand metrics remained in Balanced state last week. NAND slipped back to Loose conditions while Foundry moved from Glut to Saturated. Analog & Power status improved from Balanced to Tight. Electronics' Retail Price Down Trend has bottomed.

Chip History Center

People: Robert N. Noyce, Intel's first CEO. Some links to learn about him: Legends, Circa 1990 - Remembering Robert Noyce. Interview with **Leslie Berlin** on her Biography of Bob Noyce. Robert N. Noyce: Early Career; Robert N. Noyce: The Intel Years.

The Chip Insider

Strategy and Tactics: Still on Track to Hit \$1 Trillion by 2030? Why the Natural Semiconductor Growth Rate will Rise. Maxims for a Downturn.

Semiconductor Stocks

- *TechInsights Semiconductor Stock Indices and the S&P 500 sunk this week*
- *Semiconductor Stock Index fell*
 - *SK hynix came out on top*
- *Semiconductor Equipment Stock Index plummeted*
- *EDA Stock Index plummeted*
- *Electronics Materials Stock Index sunk*
 - *BASF was this week's biggest winner*
- *Hottest Stocks: BASF, SK hynix, MediaTek, JCET, IBM, and Intel.*

TechInsights

The Chip Insider[®]'s Graphics File



September 2022

It's cooling off and the leaves are turning yellow

- Order activity for semiconductor equipment continued to cool off, slipping by nearly two points in the first week of October
- All segments ended the week lower as chipmakers grow more cautious about their near-term prospects
- TechInsights' Chip Price Performance Index continued to trend lower

Forecast as of September 2022:	2022	2023
Semi Equipment (\$B):	\$ 139.4	\$ 132.3
Sequential Change	9.9%	-5.1%
Capacity Utilization:	96.2%	90.9%
ICs (\$B):	\$ 529.1	\$ 507.7
Sequential Change	7.5%	-4.0%
IC Units (BU):	419.3	415.9
Sequential Change	6.4%	-0.8%
Electronics (\$B) :	\$ 2,534	\$ 2,430
Sequential Change	-1.6%	-4.1%

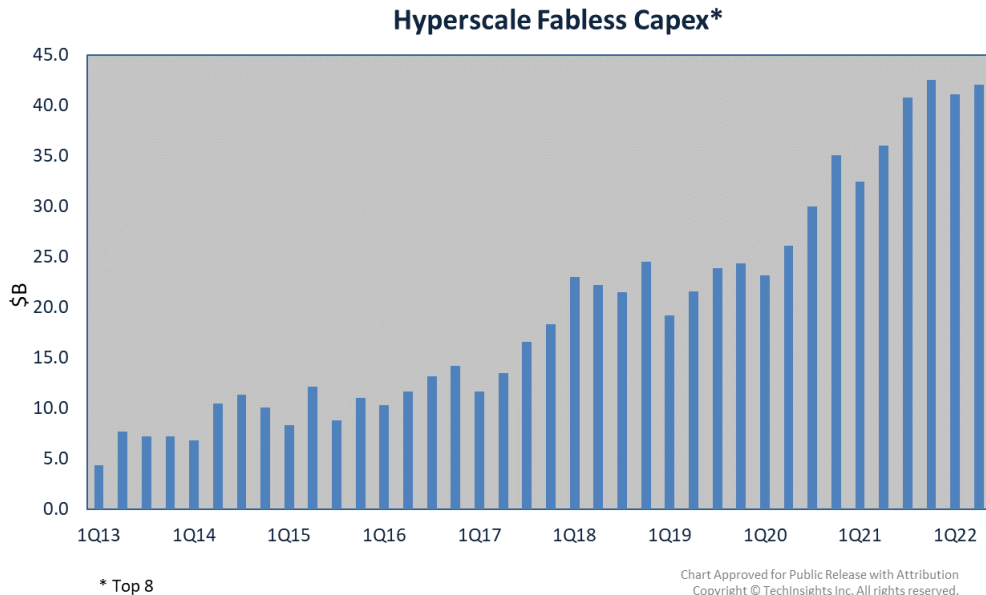


[Contact us to access more details](#)

The Chip Insider® Graphics

Hyperscale Fabless CapEx:

- Still growing on yearly basis, but the pace is slowing



2022 SIA AWARDS DINNER THURSDAY, NOVEMBER 17, 2022

SAN JOSE MARRIOTT
301 S MARKET ST, SAN JOSE, CA 95113
SIA Reception: 5-6:30 p.m.
Dinner, Awards, Keynote: 6:30-8:30 p.m.
After-Dinner Reception: 8:30-10 p.m.

NOYCE AWARD RECIPIENT

LIP-BU TAN

Executive Chairman and Former CEO
Cadence Design Systems,
Inc. Founder and Chairman
Walden International
Founding Managing Partner
Walden Catalyst Ventures



KEYNOTE SPEAKER

JIM FARLEY

President and CEO
of Ford Motor
Company



For more information about tickets and
sponsorship opportunities please contact
Sarah Ravi at sravi@semiconductors.org

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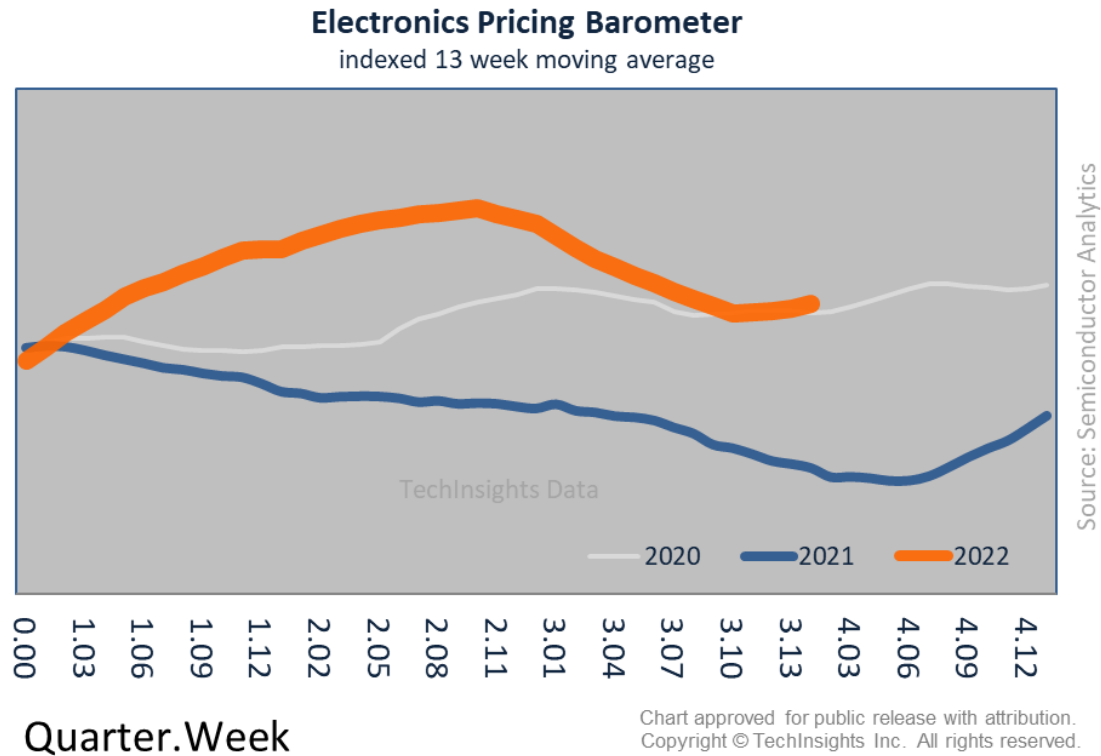


IC Weather Measures Order Activity S/D Measures Pricing Power

Electronics Retail Pricing Trends:

for PC notebooks Tablets Smartphones Cell phones Digital Cameras Appliances TVs

Electronics' Retail Price
Down Trend has
bottomed.



Workforce Development Solutions...

with Ajit Manocha of SEMI



What the conversation is about:

- Labor shortages have become the echo pandemic from the ravages COVID has had on the economy.
- This is no truer than in the semiconductor industry, where Workforce Development has long been on the To-Do lists of many.
- Most industry efforts appear to be more about lobbying others to do something about workforce development.
- It's really hard to do something substantive about it but SEMI is.

[Click here to watch online](#)

Strategy & Tactics



Strategy and Tactics: *Still on Track to Hit \$1 Trillion by 2030? Why the Natural Semiconductor Growth Rate will Rise. Maxims for a Downturn.*

Summaries:

Still on Track to Hit \$1 Trillion by 2030? *At this week's Samsung Foundry Forum, they projected semiconductor industry sales to reach \$1T by 2030. No news here, as that's what everyone has been projecting since we climbed the lift hill of the post-covid semiconductor shortage. What caught my attention was the caveat that the CAGR would need to accelerate to 9% from its 6% historical average. The obvious question was, is this just the left over chips-everywhere euphoria as the party ended? After all, the Federal Reserve has pulled the punch bowl from the party, just as the Chips and Science Act was signed. Worse, Liz Truss tried to sneak a new punch bowl into the party, which had sent markets into a tizzy in the week prior. This clearly led me to wonder if the rise to a 9% CAGR was simply the latency between preparing for a big event like the Foundry Forum and being caught up in events that move too fast... Our finest data series of IC sales is weekly. It stretches back to 2006, which gives us close to 900 individual samples of data... Both moving averages show clear peaks in IC sales, with a steady decline underway. They started well before the punchbowl was pulled from the party...*

Why the Natural Semiconductor Growth Rate will Rise: *Even though the trend to hit \$1T is there, nothing is guaranteed. The big question is, what will drive the*

additional growth. Most people, including myself have PowerPoint growth models of AI, HPC, auto, and mobile since 2015... The growth is incremental, not exponential. For example, while everyone can point to the internet as a huge growth driver, it's really hard to identify in the data – other than metaphorically... The era of the smartphone being the number one driver is over. Everyone has one and chip value growth has plateaued. Another is that data centers and HPC will pause for a while with COVID over and back-to-work pulling people away from streaming video all day. Worse, it's like what happened after Y2K – with everyone having bought new devices, the need for replacements has collapsed. So when they're not at work they can spend their money on cruises and cars... That's it ... IT'S THE CAR ...

Maxims for a Downturn: *With business slowing and chip makers asking for discounts, it's a good time to review some pricing Maxims:*

- *Price low, it's the first step towards going out of business*
- *Raise prices to coast. Lower prices and you'll work twice as hard*
- *There is a difference between low prices and discounts*

"History never repeats itself but it often rhymes."

—as Mark Twain is reputed to have said

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TechInsights



THE CHIP HISTORY CENTER

The Virtual Museum of Semiconductors

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Semiconductors are to the information age what engines are to the industrial age. Chips are the steam engine, the internal combustion engine, and the fractional horsepower engine rolled up into one. The Chip History Center is dedicated to preserving that history for future generations.

People: Robert N. Noyce, Intel's first CEO. Some links to learn about him:

Legends, Circa 1990 - Remembering Robert Noyce

Interview with Leslie Berlin on her Biography of Bob Noyce - **Segment 1**
Segment 2

Robert N. Noyce: Early Career

Robert N. Noyce: The Intel Years



President Ronald Reagan presents Bob Noyce the National Medal of Technology, 1987

Supporters:

APPLIED
MATERIALS
make possible

ASE Technology
Holding Co., Ltd.

KLA
Keep Looking Ahead

VLSIresearch
Intelligence to make better decisions faster

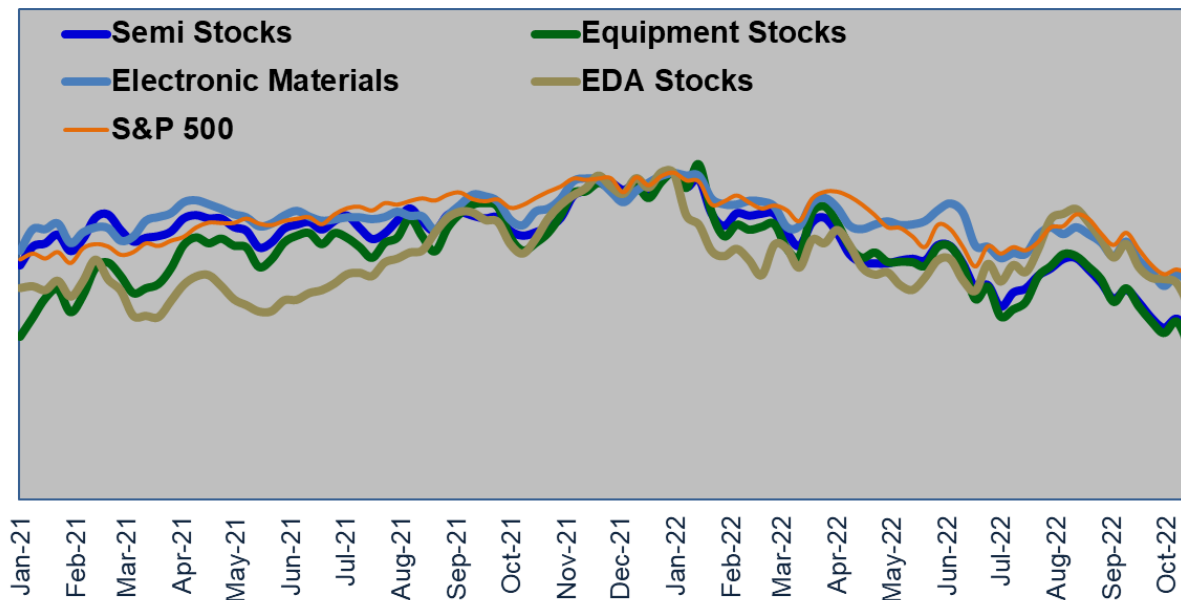
semiStockWEEK:

TechInsights' Semiconductor Stock Indices and the S&P 500
sunk this week. Semiconductor, Equipment, EDA, and the S&P 500 hit fresh new lows for the year.



Semiconductor Industry Stock Performance Indices

(Stock Prices Indexed to 100 in last week of 2021)



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TechInsights' Stock Indices:

Semiconductors -4.6%
Equipment -9.5%
Electronic Materials -2.6%
EDA -7.9%

Semiconductor Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			10/14/2022		
Semiconductor Stocks	Price Change	Forward P/E	Semiconductor Stocks	Price Change	Forward P/E
IDM			Fab-lite to Fabless		
Intel	0.7%	10	AMD	-4.3%	13
Micron	-0.4%	14	Analog Devices	-5.7%	15
ON Semiconductor	-10.9%	13	Broadcom	-7.2%	11
Samsung Electronics	0.2%	—	IBM	1.1%	12
SK hynix	4.7%		Infineon	-4.0%	12
STMicroelectronics	-6.4%	8	MagnaChip Semiconductor	-5.6%	14
Western Digital	-5.7%	7	MaxLinear	-12.3%	8
Foundry & OSAT			MediaTek	3.4%	—
Amkor	-3.9%	6	NVIDIA	-7.0%	27
ASE	-7.1%	6	Panasonic	-2.9%	10
GLOBALFOUNDRIES	-5.3%	21	Qualcomm	-9.1%	9
JCET	1.7%	12	Silicon Laboratories	-9.0%	26
SkyWater Technology	-12.8%	—	Skyworks	-7.5%	8
SMIC	-10.9%	11	Texas Instruments	-6.9%	18
TSMC	-8.4%	13			
UMC	0.5%	6			

Above Avg

Top 4-6

Top 1-3

TechInsights' Semiconductor Stock Index fell this week. SK hynix came out on top followed by MediaTek, JCET, IBM, Intel, UMC, and Samsung Electronics who were only companies to finish the week in positive territory.

IDM -2.5%
Foundry & OSAT -5.8%
Fabless & Fablite -5.5%

AMD^{AMD} Analog Devices^{ADI} Amkor^{AMKR} ASE^{ASX} Broadcom^{AVGO} GLOBALFOUNDRIES^{GFS} IBM^{IBM} Infineon^{IFNNY.PK} Intel^{INTC} JCET^{600584.SS} Micron Technology^{MU} On Semiconductor^{ON} Panasonic^{PC} MagnaChip Semiconductor^{MX} MaxLinear^{MXL} MediaTek^{2454.TW} NVIDIA^{NVDA} Qualcomm^{QCOM} Samsung Electronics^{005930.KS} Silicon Laboratories^{SLAB} SkyWater Technology^{SKYT} Skyworks^{SWKS} SMIC^{SMI} STMicroelectronics^{STM} Texas Instruments^{TXN} TSMC^{TSM} UMC^{UMC} Western Digital^{WDC}

Chip Equipment & Related Stocks:

Weekly Growth and Forward P/E Ratios by Company

TechInsights' Semiconductor Equipment Stock Index plummeted to new yearly low this week. Tokyo Electron, Advantest, and Nikon being only three to perform over the weekly average.

WFE -10.6%
Test -6.9%
Assembly -8.7%

Applied Materials ^{AMAT} Advantest ^{ATEYY}
ASM International ^{ASMIY}
ASM Lithography ^{ASML} ASM Pacific ^{0522.HK}
BE Semiconductor ^{BESIIY.PK}
FormFactor ^{FORM} KLA ^{KLAC}
Kulicke & Soffa ^{KLIC} Lam Research ^{LRCX}
Onto Innovation ^{ONTO} Nikon ⁷⁷³¹ Teradyne
^{TER} Tokyo Electron Limited ⁸⁰³⁵ Veeco
^{VECO}

Weekly Gains			10/14/2022		
Equipment Stocks	Price Change	Forward P/E	Equipment Stocks	Price Change	Forward P/E
Wafer Fab:			Test:		
Applied Materials	-9.4%	10	Advantest	-4.2%	—
ASM International	-9.5%	18	Teradyne	-7.7%	15
ASML	-12.7%	21	FormFactor	-8.7%	15
KLA	-16.1%	14			
Lam Research	-16.0%	11	Assembly:		
Onto Innovation	-13.6%	—	BESI	-11.8%	—
Nikon	-3.9%	—	Kulicke & Soffa	-7.9%	10
TEL	-5.6%	—	ASM Pacific Technology	-6.4%	
Veeco Instruments	-8.3%	11			

Above Avg

Top 4-6

Top 1-3

Electronic Materials Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			10/14/2022		
EDA & Electronic Materials Stocks	Price Change	Forward P/E	EDA & Electronic Materials Stocks	Price Change	Forward P/E
EDA			DNP	-0.6%	—
Cadence	-7.2%	35	DuPont de Nemours	-0.3%	5
Synopsys	-9.6%	31	JSR	-6.9%	—
Ansys	-6.9%	26	Shin-Etsu	-1.9%	—
Electronic Materials			SOITEC	-3.1%	—
BASF	5.8%	2	Tokyo Ohka	-3.6%	—
Entegris	-10.2%	18			

Above Avg

Top 4-6

Top 1-3

TechInsights' EDA Stock Index plummeted.

TechInsights' Electronic Materials Stock Index sunk, BASF was this week's biggest winner.

Ansys, Inc. ^{ANSS} BASF ^{BASFY}
 Entegris ^{ENTG} Cadence ^{CDNS} DNP ⁷⁹¹²
 DuPont ^{DD} JSR ⁴¹⁸⁵ Shin-Etsu ⁴⁰⁶³
 SOITEC ^{SOI.PA} Synopsys ^{SNPS} Tokyo
 Ohka ⁴¹⁸⁶

The Prior Week's Close	TechInsights' Indices of Chip Industry Stocks				Weekly Growth				Companies Up	Max Growth	Companies Down	Min Growth	Range of Growth	S&P 500	S&P 500 Growth
	Semi Stocks	Equipment Stocks	Materials Stocks	EDA Stocks	Semi Stocks	Equipment Stocks	Materials Stocks	EDA Stocks							
11-Mar-22	82.1	79.7	87.1	76.9	-3.7%	-2.2%	0.3%	-5.7%	9	9.7%	-45	-11.1%	20.8%	88.2	-2.9%
18-Mar-22	87.9	90.3	92.7	83.7	7.1%	13.3%	6.5%	8.8%	53	31.3%	-2	-5.9%	37.2%	93.6	6.2%
25-Mar-22	89.1	91.8	94.0	82.9	1.3%	1.7%	1.3%	-0.9%	36	9.2%	-16	-5.5%	14.7%	95.3	1.8%
01-Apr-22	85.4	87.8	91.5	86.1	-4.2%	-4.3%	-2.6%	3.9%	5	5.0%	-50	-23.1%	28.1%	95.4	0.1%
08-Apr-22	80.1	81.9	87.1	82.3	-6.2%	-6.8%	-4.8%	-4.4%	2	5.5%	-53	-17.6%	23.1%	94.2	-1.3%
15-Apr-22	78.1	79.2	86.4	76.9	-2.5%	-3.3%	-0.9%	-6.6%	6	4.2%	-49	-10.9%	15.1%	92.2	-2.1%
22-Apr-22	77.8	80.5	87.4	75.2	-0.3%	1.6%	1.3%	-2.2%	30	9.3%	-25	-18.8%	28.1%	89.6	-2.8%
29-Apr-22	77.8	78.2	88.2	75.7	0.0%	-2.9%	0.9%	0.7%	22	21.1%	-32	-14.9%	36.0%	86.7	-3.3%
06-May-22	78.6	78.3	87.3	72.6	0.9%	0.1%	-1.0%	-4.1%	30	12.0%	-25	-11.7%	23.7%	86.5	-0.2%
13-May-22	79.0	78.1	87.5	71.4	0.5%	-0.1%	0.2%	-1.6%	28	8.2%	-25	-10.0%	18.2%	84.4	-2.4%
20-May-22	78.6	77.3	88.3	74.5	-0.5%	-1.1%	1.0%	4.3%	22	17.9%	-30	-7.7%	25.6%	81.9	-3.0%
27-May-22	82.3	81.9	90.9	78.7	4.8%	6.0%	2.9%	5.6%	48	30.3%	-7	-7.8%	38.1%	87.2	6.6%
03-Jun-22	82.1	82.0	92.6	78.9	-0.3%	0.1%	1.9%	0.3%	29	7.7%	-26	-4.6%	12.3%	86.2	-1.2%
10-Jun-22	77.8	77.3	90.3	73.8	-5.2%	-5.7%	-2.5%	-6.5%	6	9.7%	-49	-11.9%	21.6%	81.8	-5.1%
17-Jun-22	72.0	69.1	82.3	71.2	-7.5%	-10.6%	-8.9%	-3.6%	2	4.0%	-53	-17.3%	21.3%	77.1	-5.8%
24-Jun-22	72.5	72.1	82.0	77.8	0.8%	4.3%	-0.3%	9.3%	41	12.8%	-14	-19.4%	32.2%	82.1	6.4%
01-Jul-22	67.2	64.9	79.3	73.5	-7.3%	-10.1%	-3.3%	-5.6%	3	6.1%	-52	-20.1%	26.2%	80.3	-2.2%
08-Jul-22	70.7	66.6	80.5	77.5	5.2%	2.7%	1.5%	5.5%	47	20.5%	-7	-4.8%	25.3%	81.8	1.9%
15-Jul-22	71.7	68.5	80.3	75.8	1.4%	2.8%	-0.2%	-2.2%	32	10.1%	-21	-9.1%	19.2%	81.1	-0.9%
22-Jul-22	74.9	74.7	84.9	81.5	4.4%	9.1%	5.7%	7.5%	52	66.7%	-3	-8.3%	75.0%	83.1	2.5%
29-Jul-22	76.6	77.2	86.7	88.8	2.4%	3.3%	2.2%	9.0%	39	12.4%	-16	-9.9%	22.3%	86.7	4.3%
05-Aug-22	79.0	80.1	85.1	90.1	3.1%	3.8%	-1.9%	1.5%	47	33.8%	-8	-17.1%	50.9%	87.0	0.4%
12-Aug-22	79.2	79.6	86.8	91.2	0.3%	-0.6%	1.9%	1.3%	33	22.3%	-22	-17.4%	39.7%	89.8	3.3%
19-Aug-22	76.4	77.0	85.1	88.0	-3.6%	-3.3%	-1.9%	-3.6%	9	17.4%	-46	-8.1%	25.5%	88.7	-1.2%
26-Aug-22	73.1	74.0	83.1	83.9	-4.3%	-3.9%	-2.3%	-4.7%	2	1.1%	-53	-17.8%	18.9%	85.1	-4.0%
02-Sep-22	69.2	68.4	79.6	79.4	-5.4%	-7.5%	-4.1%	-5.4%	1	2.1%	-54	-16.1%	18.2%	82.3	-3.3%
09-Sep-22	71.4	71.8	83.3	82.7	3.2%	4.9%	4.6%	4.2%	50	13.1%	-5	-9.5%	22.6%	85.3	3.6%
16-Sep-22	68.3	67.3	78.8	77.0	-4.3%	-6.2%	-5.4%	-6.9%	4	2.3%	-50	-24.2%	26.5%	81.3	-4.8%
23-Sep-22	64.5	63.7	76.0	74.4	-5.5%	-5.5%	-3.5%	-3.4%	3	1.6%	-52	-15.8%	17.4%	77.5	-4.6%
30-Sep-22	62.0	60.8	72.5	74.1	-3.9%	-4.4%	-4.7%	-0.4%	5	4.7%	-49	-11.7%	16.4%	75.2	-2.9%
07-Oct-22	64.3	63.6	75.3	73.2	3.7%	4.6%	3.9%	-1.3%	46	9.8%	-7	-7.8%	17.6%	76.4	1.5%
14-Oct-22	61.4	57.6	73.3	67.4	-4.6%	-9.5%	-2.6%	-7.9%	8	5.8%	-47	-16.1%	21.9%	75.2	-1.6%

Links to Conference Call Transcripts

October 14th

[Taiwan Semiconductor Manufacturing Company Limited \(TSM\) Q3 2022 Earnings Call Transcript](#)
[Aehr Test Systems \(AEHR\) Q1 2023 Earnings Call Transcript](#)

October 7th and before

[Micron Technology, Inc. \(MU\) Q4 2022 Earnings Call Transcript](#)
[Analog Devices Inc. \(ADI\) 13th Annual U.S. All Stars Conference \(Transcript\)](#)
[Advanced Micro Devices, Inc. \(AMD\) Goldman Sachs Communacopia + Technology Conference \(Transcript\)](#)
[QUALCOMM Incorporated \(QCOM\) Goldman Sachs 2022 Communacopia + Technology Conference \(Transcript\)](#)
[NVIDIA Corporation \(NVDA\) Presents at Goldman Sachs 2022 Communacopia + Technology Conference \(Transcript\)](#)
[NXP Semiconductors N.V. \(NXPI\) Goldman Sachs 2022 Communacopia + Technology Conference \(Transcript\)](#)
[Western Digital Corporation \(WDC\) Goldman Sachs Communacopia + Technology Conference Transcript](#)
[Applied Materials, Inc. \(AMAT\) Presents at Goldman Sachs Communacopia + Technology Conference \(Transcript\)](#)
[Western Digital Corporation \(WDC\) Presents at Evercore ISI 2nd Annual TMT Conference \(Transcript\)](#)
[ON Semiconductor Corporation \(ON\) Presents at Citi 2022 Global Technology Conference \(Transcript\)](#)
[ASML Holding NV \(ASML\) Citi 2022 Global Technology Conference \(Transcript\)](#)
[International Business Machines Corporation \(IBM\) Evercore ISI 2nd Annual Technology, Media & Telcom Conference 2022 Call Transcript](#)

Links to Conference Call Transcripts

[Analog Devices Inc. \(ADI\) 2022 Evercore ISI 2nd Annual Technology, Media & Telcom Conference \(Transcript\)](#)

[Applied Materials, Inc. \(AMAT\) Presents at Citi 2022 Global Technology Conference \(Transcript\)](#)

[Western Digital Corporation \(WDC\) Citi 2022 Global Technology Conference](#)

[NXP Semiconductors N.V. \(NXPI\) Presents at 2022 Citi's 2022 Global Technology Conference \(Transcript\)](#)

[Lam Research Corporation \(LRCX\) Management Presents at Evercore ISI 2nd Annual Technology, Media & Telcom Conference 2022 \(Transcript\)](#)

[Texas Instruments \(TXN\) Presents at Citigroup 2022 Global Technology Conference - Conference Call Transcript](#)

[Broadcom Inc. \(AVGO\) Q3 2022 Earnings Call Transcript](#)

[Micron Technology, Inc. \(MU\) Presents at Deutsche Bank 2022 Technology Conference \(Transcript\)](#)

[ON Semiconductor Corporation \(ON\) Deutsche Bank 2022 Technology Conference \(Transcript\)](#)

[Intel Corp \(INTC\) Deutsche Bank Technology Conference Transcript](#)

[Western Digital Corporation \(WDC\) Deutsche Bank 2022 Technology Conference \(Transcript\)](#)

[NVIDIA Corporation \(NVDA\) CEO Jensen Huang on Q2 2023 Results - Earnings Call Transcript](#)

[Applied Materials, Inc.'s \(AMAT\) CEO Gary Dickerson on Q3 2022 Results - Earnings Call Transcript](#)

[Synopsys, Inc. \(SNPS\) CEO Aart de Geus on Q3 2022 Results - Earnings Call Transcript](#)

[Analog Devices Inc. \(ADI\) CEO Vincent Roche on Q3 2022 Results - Earnings Call Transcript](#)

[Agilent Technologies, Inc. \(A\) CEO Mike McMullen on Q3 2022 Results - Earnings Call Transcript](#)

[SkyWater Technology, Inc. \(SKYT\) CEO Thomas Sonderman on Q2 2022 Results - Earnings Call Transcript](#)

Links to Conference Call Transcripts

[Magnachip Semiconductor Corporation \(MX\) CEO YJ Kim on Q2 2022 Results - Earnings Call Transcript](#)

[ACM Research, Inc. \(ACMR\) CEO David Wang on Q2 2022 Results - Earnings Call Transcript](#)

[Western Digital Corporation \(WDC\) CEO David Goeckeler on Q4 2022 Results - Earnings Call Transcript](#)

[Skyworks Solutions, Inc.'s \(SWKS\) CEO Liam Griffin on Q3 2022 Results - Earnings Call Transcript](#)

[Kulicke and Soffa Industries, Inc. \(KLIC\) CEO Fusen Chen on Q3 2022 Results - Earnings Call Transcript](#)

[Infineon Technologies AG \(IFNNY\) CEO Jochen Hanebeck on Q3 2022 Results - Earnings Call Transcript](#)

[Advanced Energy Industries, Inc. \(AEIS\) CEO Stephen Kelley on Q2 2022 Results - Earnings Call Transcript](#)

[Qorvo, Inc.'s \(QRVO\) CEO Bob Bruggeworth on Q1 2023 Results - Earnings Call Transcript](#)

[Microchip Technology Incorporated's \(MCHP\) CEO Ganesh Moorthy on Q1 2023 Results - Earnings Call Transcript](#)

[Advanced Micro Devices, Inc.'s \(AMD\) CEO Lisa Su on Q2 2022 Results - Earnings Call Transcript](#)

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