

Semiconductor WEEK:

September 30, 2022

An overview of results and conclusions from recent reports at TechInsights

Chip Market Research Services

Caution rises as clouds darken the road

- Order activity for semiconductor equipment was flat last week with the overall temperature hovering at a warm 80 degrees
- Capacity Utilization Rates

Semiconductor Analytics

Last Week in the Semiconductor Market:

Semiconductor sales retreated back to levels set 2 weeks ago as the gap with 2021 levels increased. The IC weather cooled 1°F in Chilly conditions. Zooming in on Logic this week, 13-wk MAs growth has been steadily cooling, since peaking at 32% the week of March 4, to 8% last week. TechInsights forecasts Logic sales will reach \$279B in 2022, with Y/Y growth of 9% that slides to -4% in 2023.

TechInsights' IC Supply/Demand metrics improved last week, rising from Saturated to Loose conditions overall and for NAND as well as the 3Q22 NowCast for Analog and Power. DRAM pulled out of its Glut as well. More Moore Foundry, More than Moore Foundry, and OSAT stayed in Glut conditions. Auto ICs remain in a Shortage. Analog and Power marked 8 weeks at Balanced.

Critical Subsystems

Critical Subsystem Inventory Data: The supply chain crunch of COVID-19 has caused OEMs to transition from Just-in-Time to Just-in-Case inventory management

Chip History Center

Applied Materials introduces Producer wafer fab system: July 2, 1998 ... Applied Materials' introduction of the Producer® in July 1998

The Chip Insider's original review of Applied Materials' Producer at its introduction July 4, 1998: a new revolution is upon us

The Chip Insider

Strategy and Tactics: TSMC's Extraordinary Growth: What's the problem?

Semiconductor Stocks

- *Semiconductor Stock Index sunk*
- *Semiconductor Equipment Stock Index plummeted*
- *EDA Stock Index slipped*
- *Electronics Materials Stock Index plummeted*
- *Hottest Stocks: SkyWater Technology, BESl, Cadence, Synopsys, Silicon Laboratories, and Micron*

TechInsights

The Chip Insider[®]'s Graphics File

September 2022



Caution rises as clouds darken the road

- Order activity for semiconductor equipment was flat last week with the overall temperature hovering at a warm 80 degrees
- Activity remains bifurcated with Memory and SOC Consumer slipping into correction territory while SOC Mobile, SOC Compute, and DAO are still expanding, albeit at a slower rate
- 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](#)

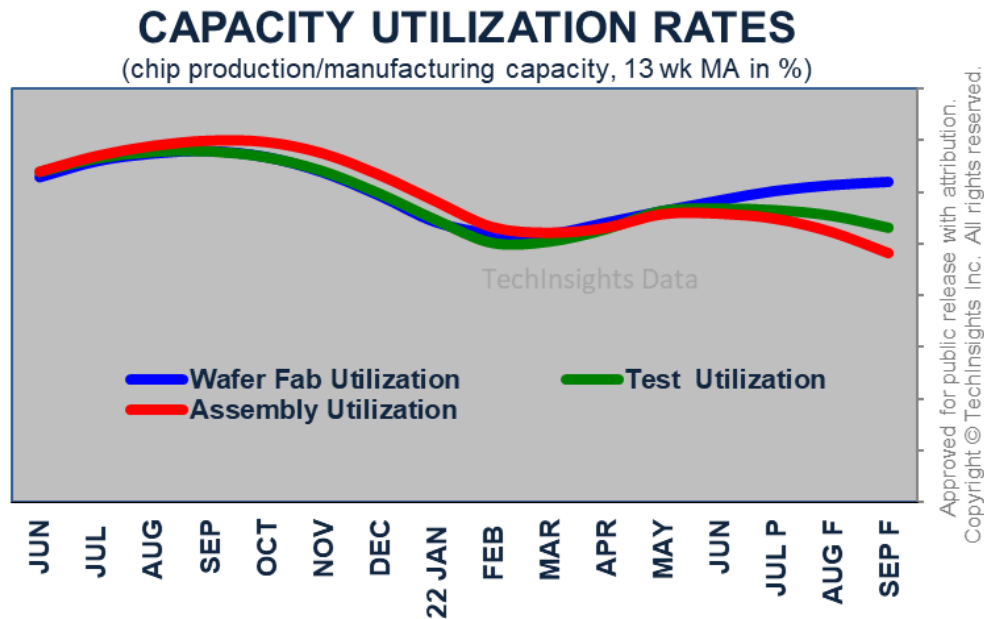
TechInsights

The Chip Insider[®] Graphics

Capacity Utilization Rates:

- WFE utilization remains above Test and Assembly utilization

Capacity Utilization Rates: chart gives rolling averages for semiconductor wafer fab, test, and assembly



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

Semiconductor Analytics

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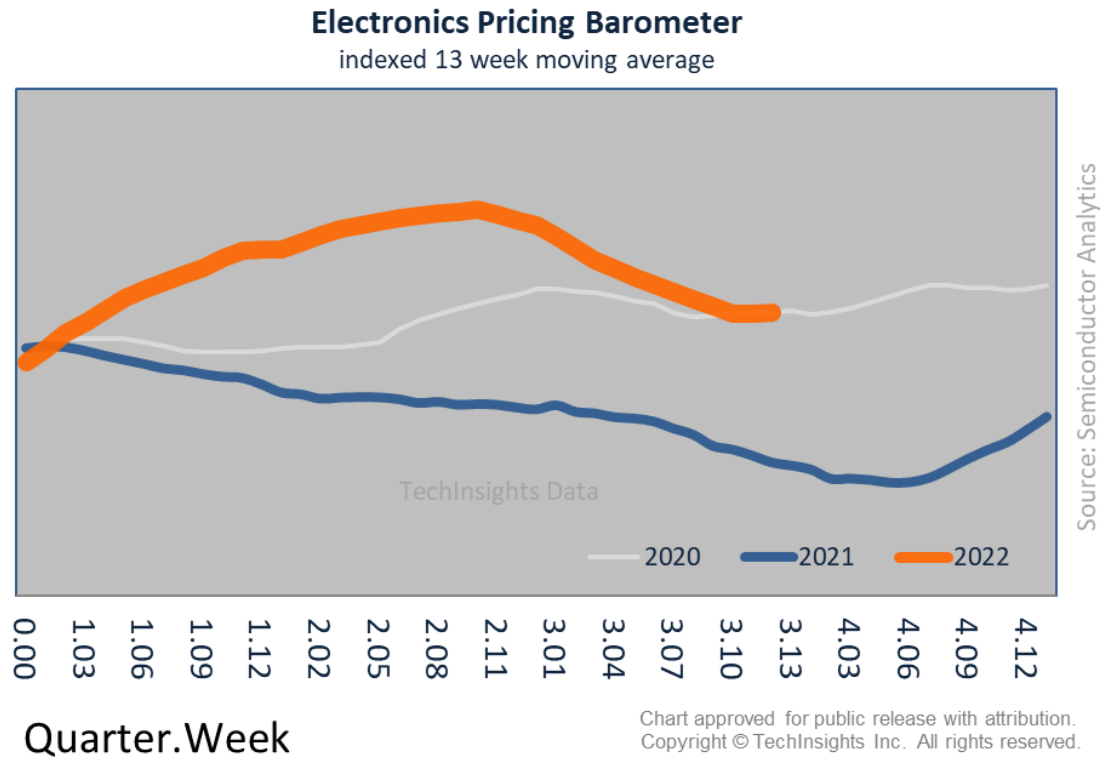


IC Weather Measures Order Activity S/D Measures Pricing Power

Electronics Retail Pricing Trends:

for PC notebooks Tablets Smartphones Cell phones Digital Cameras Appliances TVs

Decline in Electronics' Retail Price Trend is bottoming.



Critical Subsystems

Critical Subsystem Inventory Data (Located in Driving Forces under Misc. Reports)

- The supply chain crunch of COVID-19 has caused OEMs to transition from Just-in-Time to Just-in-Case inventory management.
- Recent quarters have shown an increase in Sub-system inventories as a percent of OEM revenues, hitting above 30% in 2022.

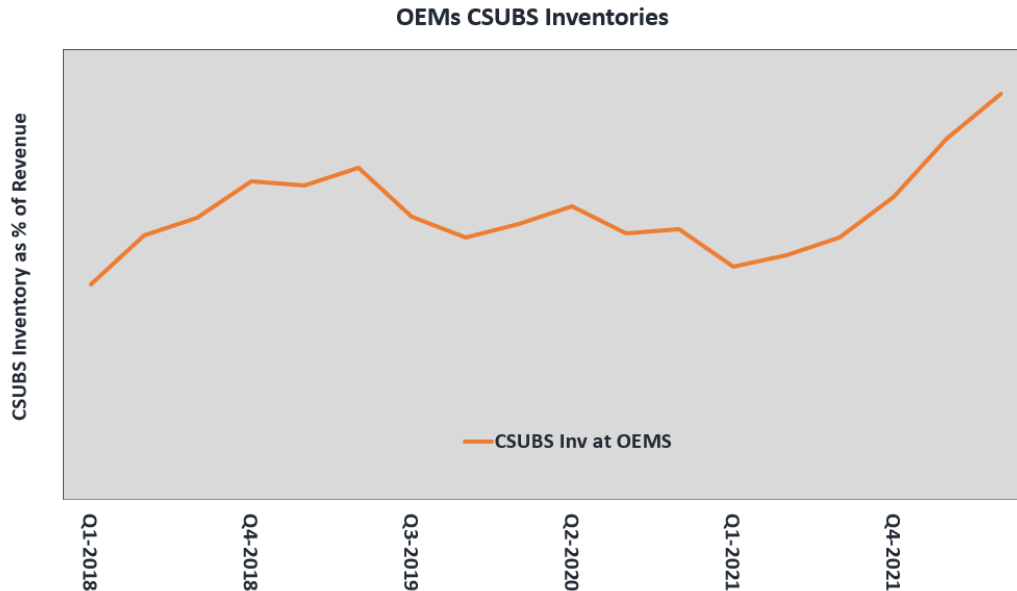


Chart approved for public release with attribution.
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[Contact us to get the full report and more](#)

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: TSMC's Extraordinary Growth:
What's the problem?

Summaries:

TSMC's Extraordinary Growth: What's the problem? TSMC had another extraordinary month in August: Year-over-Year sales growth of 47%. This was up from 41% in July. But down from 56% in May. And that's in U.S. dollars, which has been unusually strong and has muted the growth in Taiwan dollars, which was 59%, 50%, and 65%, respectively, for August, July, and May. The strength of the U.S. dollar really isn't a problem, since TSMC conducts its business in American currency. Turning back to U.S. dollars, TSMC's average monthly growth this year has averaged 39%. This is well over two times the 16% average achieved for ICs. This is where two problems lie: One short-term and the other long-term. One is tactical and the other is strategic. The short-term tactical problem lies in inventory build... The long-term strategic problem lies in TSMC's scale...

*"The only thing we have to fear is...fear itself —
nameless, unreasoning, unjustified terror which paralyzes
needed efforts to convert retreat into advance"
— Franklin D. Roosevelt's 1933 inaugural address*



Applied Materials introduces Producer wafer fab system: July 2, 1998 ... Applied Materials' introduction of the Producer® in July 1998, marks an important turning point in the history of the semiconductor industry... The pressure to make this transition was driven by the need for greater productivity as ... AMAT's Producer design team conceived of it as a one-two punch to solve poor cluster-tool productivity and bridge the 200mm-to-300mm jump. At the time, tool designers still tended to focus designs on narrow application segments ... Customers did not want bridge tools ... The Producer platform was a gutsy move because it offered what customers needed but didn't want. Great equipment companies have done this in the past and won big. The Producer would go on to be one of the most successful platforms in the industry's history, bridging many deposition and etch applications.

The Chip Insider's original review of Applied Materials' Producer at its introduction July 4, 1998: a new revolution is upon us ... It has been ten years ... since Applied Materials set the world afire with its Precision 5000 cluster tool. Now, Applied Materials has just done what no one does better, it has reinvented itself with the PRODUCER™. The PRODUCER™ is designed around new architecture concepts which obsolete all current cluster tool designs. More importantly, Applied Materials has reinvented the cluster tool in a sweeping way that challenges all past thinking about fab equipment...

News Release

APPLIED MATERIALS

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Release: Immediate

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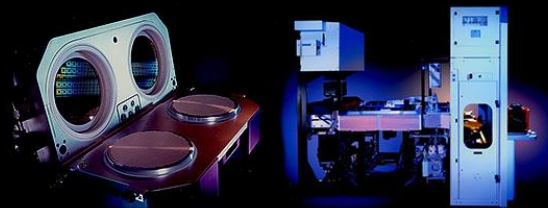
Carolyn Schwartz (financial community)
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Applied Materials Announces Technology and Productivity Breakthrough with New PRODUCER™ System

Innovative Dielectric Deposition System Sets a New Benchmark in Cost-Efficient Manufacturing

SANTA CLARA, Calif., July 1, 1998 — Applied Materials, Inc., the world's leading supplier of wafer fabrication equipment to the semiconductor industry, introduces **Producer™**, an ultra-high productivity system for depositing blanket dielectric films on sub-0.18 micron devices. Using a revolutionary new platform architecture, Producer combines the throughput benefits of twin wafer handling with the advantages of single-wafer process technology in a simple and exceptionally reliable system design.

"The Producer system addresses a new era in device manufacturing which demands higher yields, lowest cost and maximum asset utilization," said Sass Somekh, senior vice president of Applied Materials. "Its innovative architecture sets a new standard in cost-efficient, advanced-technology



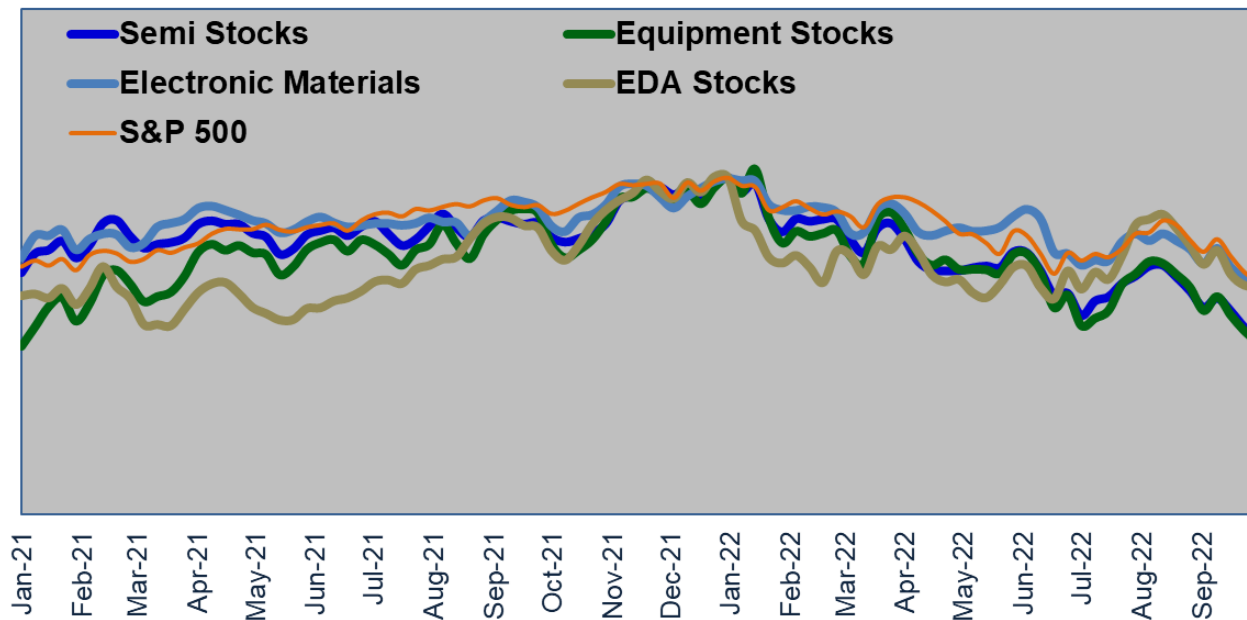
semiStockWEEK:

TechInsights' Semiconductor Stock Indices and the S&P 500
sunk even further this week. Semiconductor, Equipment, Materials, 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)



TechInsights' Stock Indices:

Semiconductors -3.9%
Equipment -4.4%
Electronic Materials -4.7%
EDA -0.4%

Semiconductor Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			9/30/2022		
Semiconductor Stocks	Price Change	Forward P/E	Semiconductor Stocks	Price Change	Forward P/E
IDM			Fab-lite to Fabless		
Intel	-6.4%	10	AMD	-6.8%	14
Micron	0.0%	14	Analog Devices	-1.8%	15
ON Semiconductor	-1.5%	13	Broadcom	-5.3%	12
Samsung Electronics	-2.6%	–	IBM	-3.2%	12
SK hynix	-0.5%		Infineon	-2.1%	11
STMicroelectronics	-7.0%	8	MagnaChip Semiconductor	-2.1%	14
Western Digital	-3.8%	6	MaxLinear	-1.0%	8
Foundry & OSAT			MediaTek	-5.0%	–
Amkor	-0.1%	5	NVIDIA	-3.0%	28
ASE	-5.5%	6	Panasonic	-6.3%	10
GLOBALFOUNDRIES	-9.2%	22	Qualcomm	-6.8%	9
JCET	-4.1%	12	Silicon Laboratories	0.4%	25
SkyWater Technology	4.7%	–	Skyworks	-9.6%	8
SMIC	-2.8%	11	Texas Instruments	-4.0%	18
TSMC	-7.2%	12			
UMC	-6.1%	6			

Above Avg

Top 4-6

Top 1-3

TechInsights' Semiconductor Stock Index sunk again this week, SkyWater Technology was this week's biggest winner followed by Silicon Laboratories and Micron.

IDM -3.1%
Foundry & OSAT -3.8%
Fabless & Fablite -4.0%

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

Weekly Gains			9/30/2022		
Equipment Stocks	Price Change	Forward P/E	Equipment Stocks	Price Change	Forward P/E
Wafer Fab:			Test:		
Applied Materials	-2.8%	11	Advantest	-8.8%	–
ASM International	-4.9%	18	Teradyne	-5.1%	16
ASML	-4.8%	21	FormFactor	-4.4%	15
KLA	-1.6%	13			
Lam Research	-3.8%	11	Assembly:		
Onto Innovation	-3.0%	–	BESI	3.0%	–
Nikon	-6.8%	–	Kulicke & Soffa	-3.3%	10
TEL	-11.7%	–	ASM Pacific Technology	-7.3%	
Veeco Instruments	-1.4%	11			

Above Avg

Top 4-6

Top 1-3

TechInsights' Semiconductor Equipment Stock Index plummeted once again this week, BESI was the only company to finish in positive territory and was one of the top performing stocks this week.

WFE -4.5%

Test -6.1%

Assembly -2.5%

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

Electronic Materials Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			9/30/2022		
EDA & Electronic Materials Stocks	Price Change	Forward P/E	EDA & Electronic Materials Stocks	Price Change	Forward P/E
EDA			DNP	-4.1%	—
Cadence	1.5%	35	DuPont de Nemours	-0.7%	5
Synopsys	0.7%	30	JSR	-7.3%	—
Ansys	-3.4%	27	Shin-Etsu	-8.0%	—
Electronic Materials			SOITEC	-5.0%	—
BASF	-1.1%	2	Tokyo Ohka	-6.4%	—
Entegris	-4.8%	18			
			Above Avg	Top 4-6	Top 1-3

TechInsights' EDA Stock Index slipped despite Cadence and Synopsys claiming two of the top stock spots.

TechInsights' Electronic Materials Stock Index plummeted this week with all companies ending the week in negative territory.

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							
25-Feb-22	90.1	87.5	91.9	82.5	0.0%	0.8%	-1.3%	9.9%	30	14.7%	-25	-9.5%	24.2%	92.0	0.8%
04-Mar-22	85.3	81.4	86.8	81.5	-5.3%	-6.9%	-5.5%	-1.2%	7	6.4%	-48	-18.6%	25.0%	90.8	-1.3%
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%

Links to Conference Call Transcripts

September 30th

[Micron Technology, Inc. \(MU\) Q4 2022 Earnings Call Transcript](#)

September 23rd and before

[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](#)

[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 \(Transcript\)](#)

Links to Conference Call Transcripts

[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 & Telecom 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](#)

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

Links to Conference Call Transcripts

[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](#)

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