Semiconductor WEEK:

September 23, 2022

An overview of results and conclusions from recent reports at TechInsights

Chip Market Research Services

Caution is on the rise

- Order activity for semiconductor equipment continued to cool off slipping, to 80 degrees
- Worldwide Chip Making Equipment Markets

Semiconductor Analytics

Last Week in the Semiconductor Market:

Semiconductor sales bottomed last week, hovering below 2021 levels. The IC weather cooled 2°F in Chilly conditions. Zooming in on the forecast this week, 13-wk growth MAs have been divergent with memory expected to pull semiconductor sales down in 4Q22. TechInsights forecasts semiconductor sales will reach \$637B in 2022, with Y/Y growth of 8% that slides to -2% in 2023.

TechInsights' IC Supply/Demand metrics stayed weak last week. DRAM, More Moore Foundry, More than Moore Foundry, and OSAT are all in Glut conditions. NAND and IDM are at Saturated levels. Analog and Power is Balanced while Auto ICs remain in a Shortage.

Decline in Electronics' Retail Price Trend is bottoming.

Critical Subsystems

Quartz Components Summary Data: Quartz component revenues on track to reach \$1.4B in 2022

Chip History Center

People: Ken Schroeder, then President & CEO of KLA-Tencor, discusses the history of process control and the role K-T played in improving wafer fab yields for semiconductor companies in this 2005 video.

Exhibits: The Koreans are Coming.

The Chip Insider

Strategy and Tactics: Government Tech Controls. Chip Slowdown.

Semiconductor Stocks

- TechInsights' Semiconductor Stock Indices sunk further this week
- Semiconductor Stock Index plummeted
- Semiconductor Equipment Stock Index plummeted
- EDA Stock Index sunk
- Electronics Materials Stock Index sunk
- Hottest Stocks: Tokyo Ohka, SMIC, Nikon, Advantest, DNP, and TEL
 TechInsights

The Chip Insider®'s Graphics File





This issue contains the latest forecast.

Contact us to access more details

September 2022

Caution is on the rise

- Order activity for semiconductor equipment continued to cool off slipping, to 80 degrees
- The decline in the overall activity has moderated in the last few weeks, but it remains bifurcated
- TechInsights' Chip Price Performance Index continued to lose ground

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%			

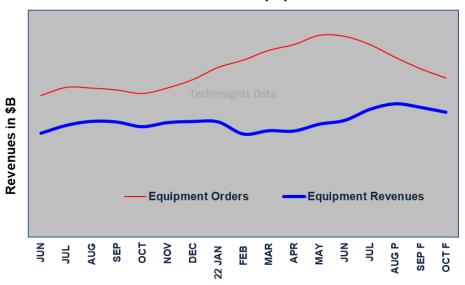
TechInsights

The Chip Insider® Graphics

Worldwide Chip Making Equipment Markets

 Equipment Orders are rolling over

W.W. Semiconductor Equipment Markets



Worldwide Chip Making Equipment Markets: Chart shows rolling averages in \$B for semiconductor equipment orders and revenues, contrasted against a 36-month rolling average of revenues



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2022 SIA AWARDS DINNER THURSDAY, NOVEMBER 17, 2022

SAN JOSE MARRIOTT 301 S MARKET ST, SAN JOSE, CA 95113

SIA Reception: 5-6:30 pm

Dinner, Awards, Keynote: 6:30-8:30 pm After-Dinner Reception: 8:30-10 pm



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

www.semiconductors.org

Semiconductor Analytics

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IC Weather Measures Order Activity S/D Measures Pricing Power



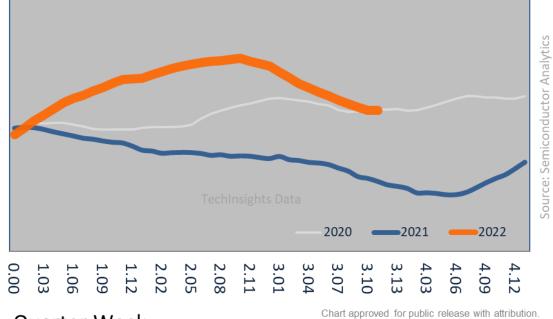
Electronics Retail Pricing Trends:

for PC notebooks Tablets Smartphones Cell phones Digital Cameras Appliances TVs

Decline in Electronics' Retail Price Trend is bottoming.

Electronics Pricing Barometer

indexed 13 week moving average



Quarter.Week

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Critical Subsystems

Quartz Components Summary Data

(Located in Driving Forces under Misc. Reports)



Quartz Components for Semi Eqpt

Quartz component revenues on track to reach \$1.4B in 2022 and surpass \$1.7B in 2026

Largest fabricators:

*Wonik QnC

*Tosoh Quartz

*Heraeus Shin-Etsu Quartz

*FerroTec

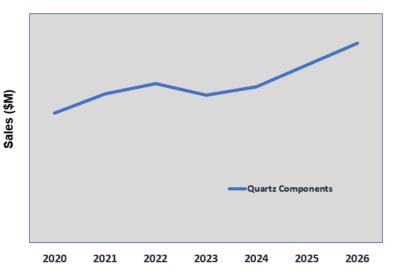


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Contact us to get the full report and more



Insights Interview:

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



The Chip Insider® Strategy & Tactics



Strategy and Tactics: Government Tech Controls. Chip Slowdown.

Summaries:

The Greater Geopolitical Messaging of U.S Government
Technology Controls: A few weeks ago the U.S. Government put
Export Controls on EDA and Wide Bandgap Substrates. Then they
blocked Nvidia & AMD from selling advanced AI chips in China. It
would be easy to see these as isolated events, but I do not believe
they are. Here's why it's ... As an industry, we need to develop a
common global position where companies agree to support each
other. I can't speak for the industry or the companies. But I do believe
we will be stronger as a group.

General recognition of the Chip Industry Slowing: It started ... said the industry was entering a "down cycle." Currently, we're more than two-thirds of the way through the third quarter and many are commenting on how sharp the turn came... Early warning signs are typically dismissed as anomalies, as confirmation and desirability bias get the best of us. This cycle has been particularly troublesome because of the extreme shortages of 2021. So, early weak sales growth was often more due to lack of components than lack of demand. This was particularly true in the first half of the year. During

this time, Occam's Razor failed us... As usual, DRAMs were the canary in the downturn coal mine. They stopped singing as early as ... Over this time, More Moore Foundry went from Tight to Glut over the course of five weeks. More than Moore Foundry and OSAT went from Tight to Saturated over the course of three weeks ... This was the sharpest turn we had ever seen. It set a very dark trend for going into the third quarter... So, we're in this unusual situation of supply chain disruption and weak demand – two conditions that are normally mutually exclusive.

"When everything seems to be going against you ...
remember that the airplane takes off against the wind"
— Henry Ford

Contact us to get the full report and more

TechInsights

THE CHIP HISTORY CENTER The Virtual Museum of Semiconductors

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www.chiphistory.org

People: Ken Schroeder, then President & CEO of KLA-Tencor, discusses the history of process control and the role K-T played in improving wafer fab yields for semiconductor companies in this 2005 video. He describes the new wafer inspection tools they introduced that

year: The Puma dark-field tool and the 2800 bright-field system. Other topics include How IC makers save money using process control. Focus is on ramping 65nm and bringing 45nm to production.



Exhibits: The Koreans are Coming

This landmark article from 1979 hails Korea's entry into the Semiconductor industry. It's truly amazing how little the Korean government actually allotted to get their country into the chip making game and how much they got out of it. Today's memory giants have their roots in this investment.

Korea Allots \$60M for IC R&D, Output

By JOHN HATAYE

SEOUL, South Korea (FNS) — The Korean government has allotted approximately \$60 million to start research and development and pilot production of microprocessors and other integrated circuits in a government-designated complex in the Gumi Export zone.

The funding, which includes \$28 mil- known as the Kiet Project and the

as Gold Star Telecommunica Gold Star Electron, Taihan Tele munications and Tong Nylonlco, which earlier conclulicensing agreement with Hitach of Japan to assemble small computers.















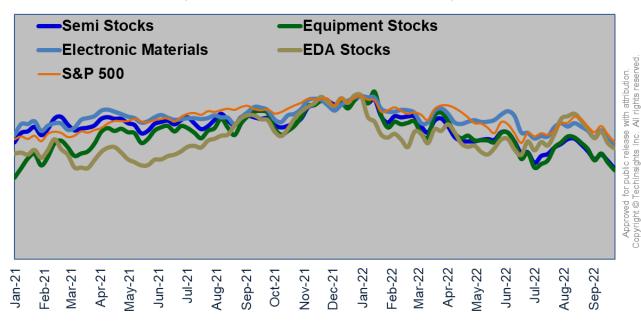




sunk further this week.

Semiconductor Industry Stock Performance Indices

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



TechInsights' Stock Indices:

Semiconductors -5.5% Equipment -5.5% Electronic Materials -3.5% EDA -3.4%

Semiconductor Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains 9/23/2022								
Semiconductor Stocks	Price Change	Forward P/E	Semiconductor Stocks	Price Change	Forward P/E			
IDM			Fab-lite to Fabless					
Intel	-5.9%	11	AMD	-11.2%	16			
Micron	-5.2%	14	Analog Devices	-4.9%	16			
ON Semiconductor	-8.2%	14	Broadcom	-6.7%	12			
Samsung Electronics	-3.0%	_	IBM	-3.6%	13			
SK hynix	-8.4%		Infineon	-7.5%	12			
STMicroelectronics	-7.1%	9	MagnaChip Semiconductor	-8.3%	15			
Western Digital	-9.1%	7	MaxLinear	-4.6%	8			
Foundry & OSAT			MediaTek	-3.3%	8 -			
Amkor	-5.7%	6	NVIDIA	-5.2%	29			
ASE	-5.2%	6	Panasonic	-4.7%	11			
GLOBALFOUNDRIES	-7.6%	24	Qualcomm	-3.0%	10 -			
JCET	-5.3%	13	Silicon Laboratories	-5.0%	27			
SkyWater Technology	-15.8%	-	Skyworks	-5.5%	9			
SMIC	1.0%	10	Texas Instruments	-1.7%	18			
TSMC	-5.2%	12			18			
UMC	-7.3%	7						

TechInsights' Semiconductor Stock Index plummeted to a new yearly low,
SMIC was the only bright spot this week
and was one of this week's top
performers.

IDM -6.7% Foundry & OSAT -6.4% Fabless & Fablite -5.4%

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 SMIC SMI STMicroelectronics STM Texas Instruments TXN TSMC TSM UMCUMC Western Digital WDC



Chip Equipment & Related Stocks: Weekly Growth and Forward P/E Ratios by Company

Weekly Gains									
Equipment Stocks	Price Change	Forward P/E	Equipment Stocks	Price Change	Forward P/E				
Wafer Fab:			Test:						
Applied Materials	-5.2%	11	Advantest	-0.1%	_				
ASM International	-9.0%	20	Teradyne	-3.5%	16				
ASML	-6.7%	23	FormFactor	-2.9%	15				
KLA	-8.3%	14							
Lam Research	-6.5%	11	Assembly:						
Onto Innovation	-3.2%	_	BESI	-11.8%	_				
Nikon	0.3%	-	Kulicke & Soffa	-2.5%	10				
TEL	-1.2%	-	ASM Pacific Technology	-13.6%					
Veeco Instruments	-5.3%	12							

TechInsights' Semiconductor Equipment Stock Index plummeted again this week to a new yearly low. The companies that fared the best this week were Nikon, Advantest, and TEL. Nikon was the only company to finish in positive territory.

WFE -5.0% Test -2.2% Assembly -9.3%

Top 1-3

Top 4-6

Above Ava

Applied Materials AMAT Advantest ATEYY
ASM International ASMIY
ASM Lithography ASML ASM Pacific 0522.HK
BE Semiconductor BESIY.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 9/23/2									
EDA & Electronic Materials Stocks	Price Change	Forward P/E	EDA & Electronic Materials Stocks	Price Change	Forward P/E				
EDA			DNP	-0.2%	_				
Cadence	-2.0%	36	DuPont de Nemours	-5.9%	5				
Synopsys	-3.5%	31	JSR	-1.6%	_				
Ansys	-4.7%	28	Shin-Etsu	-2.0%	_				
Electronic Materials			SOITEC	-6.9%					
BASF	-6.7%	2	Tokyo Ohka	1.6%	_				
Entegris	-6.0%	19							
			Abov	e Avg Top	4-6 Top 1-3				

TechInsights' EDA Stock Index sunk.

TechInsights' Electronic Materials Stock Index sunk to a new yearly low. Tokyo
Ohka was this week's top performer,
followed by DNP.

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



18-Feb-22	90.1	86.8	93.0	75.0	0.6%	0.8%	-0.2%	-4.7%	28	12.2%	-26	-7.0%	19.2%	91.2	-1.6%
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%
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Weekly Growth

Materials

Stocks

EDA

Stocks

Equipment

Stocks

TechInsights' Indices of Chip Industry Stocks

Materials

Stocks

Equipment

Stocks

EDA

Stocks

Semi

Stocks

The Prior Week's

Close

Semi

Stocks

Companies Up

Max Growth

Companies Down

Min Growth

Range of Growth S&P 500

S&P 500 Growth

Links to **Conference Call** Transcripts

September 23rd

Analog Devices Inc. (ADI) 13th Annual U.S. All Stars Conference (Transcript)

September 16th and before

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)

<u>Western Digital Corporation (WDC) Goldman Sachs Communacopia + Technology Conference Transcript</u>

<u>Applied Materials, Inc. (AMAT) Presents at Goldman Sachs Communacopia + Technology Conference (Transcript)</u>

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)

<u>Lam Research Corporation (LRCX) Management Presents at Evercore ISI 2nd Annual Technology, Media & Telcom Conference 2022 (Transcript)</u>

<u>Texas Instruments (TXN) Presents at Citigroup 2022 Global Technology Conference - Conference Call Transcript</u>

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

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

Cirrus Logic, Inc.'s (CRUS) CEO John Forsyth on Q1 2023 Results - Earnings Call Transcript

Amkor Technology, Inc. (AMKR) CEO Giel Rutten on Q2 2022 Results - Earnings Call Transcript

ON Semiconductor Corporation's (ON) CEO Hassane El-Khoury on Q2 2022 Results - Earnings Call Transcript

SK Hynix, Inc.'s (HXSCF) Q2 2022 Results - Earnings Call Transcript

LG Electronics Inc.'s (LGEAF) Q2 2022 Results - Earnings Call Transcript

STMicroelectronics N.V. (STM) CEO Jean-Marc Chery on Q2 2022 Results - Earnings Call Transcript

ASE Technology Holding Co., Ltd. (ASX) Q2 2022 Results - Earnings Call Transcript

Cohu, Inc. (COHU) CEO Luis Müller on Q2 2022 Results - Earnings Call Transcript



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- Advanced Packaging V22.07
- Electronics & Macroeconomy V22.07
- Diffusion Rates and Utilization V22.07
- Packaging Demand V22.06

Equipment Database Module:

- IC Equipment Forecast:
 - Yearly V22.08
- WFE Equipment Market Shares:
 - Yearly V22.05
 - Quarterly V22.08
- Scanner & Stepper Shipments V22.06
- WFE by Applications V22.05

Customer Satisfaction Survey Uploads:

- 2022 CSS Databases
- 2022 Survey Documents

Critical Subsystems Uploads:

- Critical Subsystems Forecasts V22.05
- Device Forecast Summary V22.05
- Manufacturing Equipment Forecasts V22.05
- Substrate Processing Equipment Shipments V22.05
- Substrate Processing Equipment Installed Base V22.05
- Chamber Shipments V22.05
- Supplier Shares V22.03

Test Connectivity Reports:

- Test and Burn-In Socket Report: V21.04
- Probe Card Report: V21.04
- Device Interface Board Report: V20.05

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