



DRAMeXchange Market Intelligence Membership Services

mi@dramexchange.com

 TRENDFORCE

 DRAMeXchange

 WitsView

 LEDinside

 EnergyTrend

 拓墣TRI
TOPICUS RESEARCH INSTITUTE

DRAMeXchange Market Intelligent Service



Membership Service		General		DRAM		NAND		DRAM+NAND	
Item	Frequency	Silver	Gold	DRAM Platinum	DRAM Diamond	NAND Platinum	NAND Diamond	Memory Platinum	Memory Diamond
Price Information									
Spot Price Early Notice	Daily	◎	◎	◎	◎	◎	◎	◎	◎
Historical Price Download	Daily	◎	◎	◎	◎	◎	◎	◎	◎
DRAM/NAND Contract Early Notice	Monthly		◎	◎	◎	◎	◎	◎	◎
Server DIMM Contract Price	Monthly								
Mobile Contract Prices Info.	Quarterly								
NAND Flash Wafer Spot Prices Info.	Weekly								
NAND Flash Wafer Contract Prices Info.	Monthly								
WW SSD Street Price	Biweekly								
Enterprise SSD Contract Price	Quarterly								
PC-Client OEM SSD Contract Price	Quarterly								
Report									
Research Report	Quarterly			◎	◎	◎	◎	◎	◎
Special Report	Aperiodically			◎	◎	◎	◎	◎	◎
Datasheet									
DRAM Platinum Datasheet	Monthly			◎	◎			◎	◎
NAND Platinum Datasheet	Monthly					◎	◎	◎	◎
DRAM Diamond Datasheet	Quarterly				◎				◎
NAND Diamond Datasheet	Quarterly						◎		◎
Server DRAM Datasheet	Quarterly								
Mobile Datasheet	Quarterly								
Enterprise SSD Datasheet	Quarterly								
SSD Datasheet	Quarterly								
Mobile Device Datasheet	Quarterly								
Foundry Datasheet	Quarterly								
SLC Datasheet	Quarterly								
Consumer DRAM Datasheet	Quarterly								
Other Service									
Analyst Con. Call	Quarterly			◎	◎	◎	◎	◎	◎
Business Visiting	Arrange			◎	◎	◎	◎	◎	◎
Price(USD) – Excluded Tax		2,000	6,000	10,000	18,000	10,000	18,000	18,000	33,000

DRAMeXchange Market Intelligent Service



Membership Service		Single Purchase											
Item	Frequency	Nor Flash Report	Foundry Project	Mobile Package	Server DRAM Package	Server Platinum	Enterprise SSD Package	SSD Pro Package	SSD Package	Smartphone Market Decode	NAND Flash Wafer	SLC Datasheet	Consumer DRAM Datasheet
Price Information													
Spot Price Early Notice	Daily												
Historical Price Download	Daily												
DRAM/NAND Contract Early Notice	Monthly												
Server DIMM Contract Price	Monthly				◎	◎							
Mobile Contract Prices Info.	Quarterly			◎									
NAND Flash Wafer Spot Prices Info.	Weekly										◎		
NAND Flash Wafer Contract Prices Info.	Monthly										◎		
WW SSD Street Price	Biweekly							◎	◎				
Enterprise SSD Contract Price	Quarterly					◎	◎	◎					
PC-Client OEM SSD Contract Price	Quarterly							◎	◎				
Report													
Research Report	Quarterly			◎ Mobile DRAM	◎	◎				◎			
Special Report	Aperiodically	◎ Once Only		◎				◎	◎				
Datasheet													
DRAM Platinum Datasheet	Monthly												
NAND Platinum Datasheet	Monthly												
DRAM Diamond Datasheet	Quarterly												
NAND Diamond Datasheet	Quarterly												
Server DRAM Datasheet	Quarterly				◎	◎							
Mobile Datasheet	Quarterly			◎									
Enterprise SSD Datasheet	Quarterly					◎	◎	◎					
SSD Datasheet	Quarterly							◎	◎				
Smartphone Datasheet	Quarterly									◎			
Foundry Datasheet	Quarterly		◎										
SLC Datasheet	Quarterly											◎	
Consumer DRAM Datasheet	Quarterly												◎
Other Service													
Analyst Con. Call	Quarterly		◎	◎		◎	◎	◎	◎				
Business Visiting	Arrange		◎			◎	◎	◎					
Price(USD) – Excluded Tax		1,500	70,000	8,000	12,000	22,000	12,000	18,500	8,500	12,000	5,000	6,000	6,000

Silver Membership

As DRAMeXchange Silver Membership, you are allow to assess our services below:

I DRAM/NAND Contract/Spot Price Information

Authorize to **download** price on DRAMeXchange Price Database, and:

1. Download DRAM / NAND Flash daily spot prices or monthly contract prices from 2016 to current in excel format
2. View DRAM / NAND Flash spot / contract price trend in chart format on a weekly, monthly, quarterly and yearly basis, or on customized basis
3. Download DXI (DRAMeXchange Index) from 2019 to current in excel format
4. Compare the price trend between different densities in chart format (only for mainstream chips, and also on a weekly, monthly, quarterly and yearly basis)
5. Historical Daily Express - a quick look at daily DRAM / NAND Flash spot markets from Nov. 28th, 2003 to current

Historical Price Download Center

Notice: We have made adjustments to the sampling base in our analysis, and these changes have been incorporated into our survey of specialty DRAM prices since Dec. 2017. As a result, the survey for Dec. 2017 shows significant price fluctuations.

☒ DRAM Spot ☐ DRAM Contract ☐ Flash Spot ☐ Flash Contract ☐ Memory Card

Item	Please Select Item										
Duration	2020	/	1	/	1	TO	2020	/	1	/	6
(Please select item first) <input type="button" value="Reset"/> <input type="button" value="Create Download Link"/>											

© COPYRIGHT

Users may download and print extracts of content from this website for their own personal and non-commercial use only. Reproduction or redistribution of DRAMeXchange's content, including by framing or similar means, is expressly prohibited without the prior written consent of DRAMeXchange.

Any questions regarding historical prices, please [contact us](#).

Please provide your login ID in the comment section for membership verification. Thank you.

DDR3 1Gb 128Mx8 1600/1866Mbps	3D TLC 1Tb
DDR3 1Gb 64Mx16 1600/1866Mbps	3D TLC 256Gb
DDR3 2Gb 128Mx16 1600/1866Mbps	3D TLC 512Gb
DDR3 2Gb 256Mx8 1600/1866Mbps	MLC 128Gb 16GBx8
DDR3 2Gb 256Mx8 eTT	MLC 256Gb 32GBx8
DDR3 4Gb 256Mx16 1600/1866Mbps	MLC 32Gb 4GBx8
DDR3 4Gb 512Mx8 1600/1866Mbps	MLC 64Gb 8GBx8
DDR3 4Gb 512Mx8 eTT	SLC 16Gb 2GBx8
DDR3 8Gb 512M*16 1600 Mbps	SLC 1Gb 128MBx8
DDR4 4G (256M*16) 2400 Mbps	SLC 2Gb 256MBx8
DDR4 4G (512M*8) 2400 Mbps	SLC 4Gb 512MBx8
DDR4 4Gb 512Mx8 eTT	SLC 8Gb 1GBx8
DDR4 8G (1G*8) 2400 Mbps	
DDR4 8G (1G*8) 2666 Mbps	
DDR4 8G (1G*8) eTT	
DDR4 8G (512M*16) 2400 Mbps	
DDR4 8G (512M*16) 2666 Mbps	

Silver Membership

I DRAM/NAND Market View

An overall and latest updated on DRAM, NAND Flash, PC and SSD industry

I DRAM/NAND Learning Center

Learning Center: an introduction of memory industry, separated into DRAM and NAND Flash.

I Daily News Alert

Provides Silver members daily update of DRAM, NAND FLASH, PC, Memory Card, etc. semiconductor industry news

I SSD Performance Test

View our result of performance test on different SSD products



Global Memory Research
6 JAN 2020

Korean Company Begins Mass Production of High-purity Hydrofluoric Acid Solutions

BusinessKorea
Since Japan began to restrict exports of three key materials for semiconductor and display production -- high-purity hydrogen fluoride, fluorine polyimide and photoresists...

Samsung Produces World's First 3 nm Semiconductor Prototype

Somag News
By 2030, semiconductor manufacturing companies such as TSMC and Intel, who want to take the lead in the leadership of Samsung, continues to strive for this ...

AMD will be the biggest customer of TSMC 7nm production line

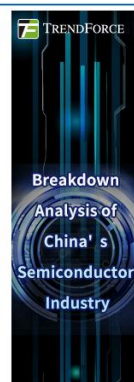
Somag News
AMD is expected to be the largest 7nm customer of the TSMC with the introduction of consoles. GlobalFoundries's towing to the 7nm process due to financial ...

Linux wrestles Moore's Law limits with adaptability, Versal chip

FierceElectronics
It was introduced in the form of the Versal chip in 2019 that is manufactured by TSMC on a 7nm process. "Our fundamental programming model is to be able to ...

Samsung's next foldable phone: Feb. 11 launch likely, price, cameras and screen rumors

CNET
Samsung is widely expected to launch a new foldable phone on Feb. 11 in San Francisco at its official Unpacked event. Invitations are out, subtly hinting at a ...



Global Memory Research
6 Jan 2020

三星成功開發業界首見3奈米GAA製程技術！效能增30%

MoneyDJ新聞
三星電子 (Samsung Electronics) 已成功開發出業界首見3奈米GAA製程技術，副會長李在鎔1月2日訪問了華城 (Hwaseong) 晶片廠的半導體研發中心，討論該項...

韓電子時報：三星電子今年將斥資 17兆韓建記憶體晶片廠

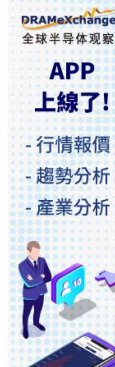
經濟日報
南韓電子時報引述未具名消息報導，三星電子計劃今年投入規模17兆韓元 (145.4億美元) 的投資，擴充位於南韓平澤和大陸西安兩處工廠的記憶體晶片設施。三星電子規劃...

海思不再只對華為提供晶片，傳將開始對外展開銷售

MoneyDJ新聞
華為旗下晶片公司海思半導體終於開始向除了華為之外的其他企業供應晶片。在此之前，該公司只向華為提供晶片產品，但最近在深圳舉行的 ELEXCON 2019年電子展期間...

7奈米表現亮眼 超微擺台積電 續衝5奈米

工商時報
PC處理器大廠超微 (AMD) 本次採用台積電7奈米製程，使產品在產能及效能上表現都相當亮眼，超微技術長Mark Papermest在接受外媒採訪時也大讚台積電，同時預估



Global Memory Research
6 Jan 2020

兩年多，從“零”長成集成電路“高地”的秘訣

全球半導體觀察
廈門市海滄區近日有5個半導體項目試投產、主體大樓封頂或開工建設，士蘭化合物半導體芯片生產線試投產、通富微集成電路先進封裝測試產業化基地試投產通富微電...

三星成功開發業界首見3奈米GAA製程技術 效能增30%

全球半導體觀察
三星電子 (Samsung Electronics) 已成功開發出業界首見3奈米GAA製程技術，副會長李在鎔1月2日訪問了華城 (Hwaseong) 晶片廠的半導體研發中心，討論相關的商...

外傳：海思芯片不再是華為獨有 將對外出售40/56芯片

全球半導體觀察
日前外傳報導稱，華為已經開始低調對外銷售海思的芯片，在12月份的深圳 ELEXCON 2019年電子展上，華為就向外界推介了46芯片，這還是華為歷史上的首次，在網絡...

湖北高校首家芯片產業學院成立

全球半導體觀察
1月4日，湖北工業大學掛牌成立芯片產業學院。這是湖北首家芯片產業學院。湖北工業大學芯片產業學院首屆本科招生190多人，2019年9月已經完成。該校參照國家...



Gold Membership

Gold membership is the value-added membership that advances from Silver membership, Gold membership will enjoy *all Silver membership Package* and *other services* as below :

I DRAM/NAND Contract/Spot Price Download

DRAMeXchange offers DRAM/NAND Contract and Spot Prices download, and as members, you can view the latest price information on the website.

I DRAM/NAND Flash Contract Price Early Notice

DRAMeXchange offers a monthly DRAM/NAND Flash contract price early notice. This notice provides the latest price information and send to members before our website is updated.



TrendForce Corp. www.trendforce.com



NAND Flash Contract Price Dec. 2019

Rising Stock-Up Demand Led to a 3-5% MoM Increase in Prices of MLC Chips in December



NAND Flash Contract Price Update		2H Nov.	
(Unit: USD)	Density	Hi	Low
SLC	1Gb		
	2Gb		
	4Gb		
	8Gb		
	16Gb		
MLC	32Gb		
	64Gb		
	128Gb		

Last update: 2019/12/31

11F, No.68, Sec
Tel: +886-2-4



DRAM Contract Price Dec. 2019

PC DRAM Market Saw Price Stabilization and Volume Growth in December With 8GB Modules Still Trading at an Average of US\$24.5



With the decline in PC DRAM prices tapering off, graphics and server DRAM are set to lead the next cyclical rally in 1Q20



DRAM Contract Price Update		Nov. 2H			Dec. 2H			Change		
Item (Unit: USD)		Hi	Low	Avg	Hi	Low	Avg	Hi(%)	Low(%)	Avg(%)
DDR4 8GB SO-DIMM 2133/2400Mbps										
DDR4 8GB U-DIMM 2133/2400Mbps										
DDR4 4GB SO-DIMM 2133/2400Mbps										
DDR4 4GB U-DIMM 2133/2400Mbps										
DDR4 8Gb 1G*8 2133/2400Mbps (based on 8GB module)										

Last update: 2019/12/31

11F, No.68, Sec. 3, Nanjing E. Rd. Taipei, 104, Taiwan
Tel: +886-2-89786488 Fax: +886-2-77026898

DRAM Platinum Membership

DRAM Platinum member will receive all data including Silver and Gold membership coverage.
DRAM Platinum Service covers as below :

I DRAM Monthly Datasheet

DRAMeXchange offers you a complete analysis on DRAM industry supply/demand sufficiency, cost analysis and price forecast.

I DRAM Quarterly Research Report

DRAMeXchange Research report covers DRAM production overview, shipment update and forecast, new product and technology roadmap, industry and pricing trend.

I Analyst Consulting Service

Members could schedule quarterly conference call with DRAMeXchange Analysts.

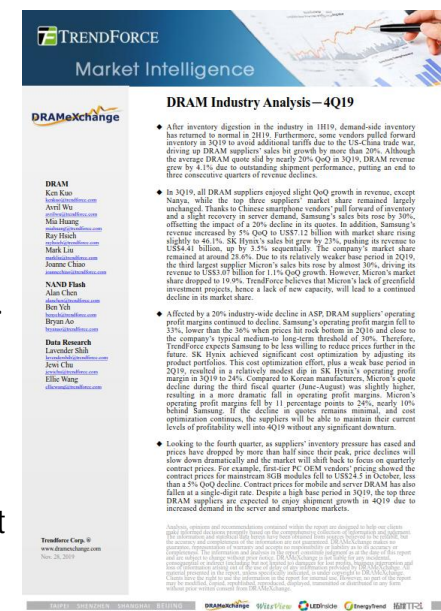
I Business Visiting

Meet DRAMeXchange Analysts by person! Schedule business visiting with DRAMeXchange Analysts.

NEW

I Additional purchase for the DRAM Market Bulletin

We are newly added the value-added services in order to help the client to catch up the DRAM market highlight on a weekly basis!



DRAM Platinum Membership

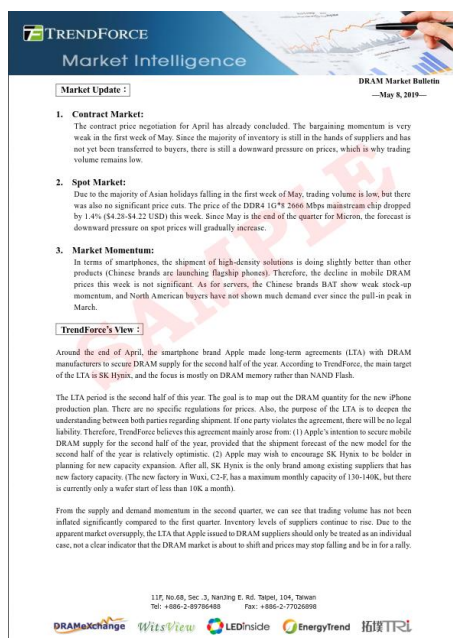


The DRAM Market Bulletin – Additional purchase

DRAMeXchange offers an additional purchase which only applies to the above DRAM Platinum members, a comprehensive market update on the Contract, Spot and the DRAM market momentum.

We also provide our point of view on the instant hot topic analysis on the weekly basis.

*At least 40 publication reports in a year.



Additional fee:
USD 3,500/year
Language:
English / Chinese / Simple Chinese
Format:
PDF
Frequency:
Wednesday of the published week

DRAM Platinum Membership



DRAM Platinum Monthly Datasheet

DRAM Worldwide Supply Update

- DRAM Market Forecast
- DRAM Makers' Revenue
- DRAM Makers Quarterly Revenue Ranking
- DRAM Operating Margin By Each Vendors
- DRAM Makers' Capex
- DRAM Worldwide 12" Quarterly Wafer Starts
- DRAM Makers' Fab Capacity breakdown by Brand
- DRAM Makers' Fab Capacity breakdown by Fab
- DRAM Worldwide Monthly Production Summary
- DRAM Worldwide Monthly Production breakdown by Type
- DRAM Worldwide Monthly Production breakdown by Region
- DRAM Worldwide Process Ratio by quarter
- Technology breakdown by Company
- DRAM Makers' Quarterly Production Output breakdown by Density

DRAM Supply v.s. Demand Sufficiency Analysis

- DRAM Supply v.s. Demand Sufficiency
- DRAM Supply and Demand Model

DRAM Worldwide Demand Update

- Worldwide Monthly Motherboard shipment
- Worldwide Monthly Notebook shipment
- Worldwide Monthly PC shipment
- Worldwide Monthly PC shipment (including Tablet)
- Worldwide Quarterly Server & Workstation Shipment
- Worldwide Quarterly Graphics Shipment
- Worldwide Quarterly Handset Production Volume
- DRAM Content Per Box in MB, NB

DRAM Market Forecast

- DRAM Spot and Contract Prices Forecast by Month
- Worldwide DRAM Production Forecast
- DRAM Cost Structure Update

DRAM Diamond Package (DRAM Monthly & Quarterly Datasheet)



DRAM Diamond member will receive all data including DRAM Platinum membership coverage. DRAM Diamond Service covers as below :

I DRAM Monthly Datasheet

DRAMeXchange offers you a complete analysis on DRAM industry supply/demand sufficiency, cost analysis and price forecast.

I DRAM Quarterly Datasheet

DRAMeXchange Offers you a complete analysis on DRAM industry wafer input, production output, technology node...etc. by each company.

I DRAM Quarterly Research Report

DRAMeXchange Research report covers DRAM production overview, shipment update and forecast, new product and technology roadmap, industry and pricing trend.

I Analyst Consulting Service

Members could schedule quarterly conference call with DRAMeXchange Analysts.

I Business Visiting

Meet DRAMeXchange Analysts by person! Schedule business visiting with DRAMeXchange Analysts.

DRAM Diamond Package (DRAM Monthly & Quarterly Datasheet)

DRAM Platinum Monthly Datasheet

DRAM Worldwide Supply Update

- DRAM Market Forecast
- DRAM Makers' Revenue
- DRAM Makers Quarterly Revenue Ranking
- DRAM Operating Margin By Each Vendors
- DRAM Makers' Capex
- DRAM Worldwide 12" Quarterly Wafer Starts
- DRAM Makers' Fab Capacity breakdown by Brand
- DRAM Makers' Fab Capacity breakdown by Fab
- DRAM Worldwide Monthly Production Summary
- DRAM Worldwide Monthly Production breakdown by Type
- DRAM Worldwide Monthly Production breakdown by Region
- DRAM Worldwide Process Ratio by quarter
- Technology breakdown by Company
- DRAM Makers' Quarterly Production Output breakdown by Density

DRAM Supply v.s. Demand Sufficiency Analysis

- DRAM Supply v.s. Demand Sufficiency
- DRAM Supply and Demand Model

DRAM Worldwide Demand Update

- Worldwide Monthly Motherboard shipment
- Worldwide Monthly Notebook shipment
- Worldwide Monthly PC shipment
- Worldwide Monthly PC shipment (including Tablet)
- Worldwide Quarterly Server & Workstation Shipment
- Worldwide Quarterly Graphics Shipment
- Worldwide Quarterly Handset Production Volume
- DRAM Content Per Box in MB, NB

DRAM Market Forecast

- DRAM Spot and Contract Prices Forecast by Month
- Worldwide DRAM Production Forecast
- DRAM Cost Structure Update

DRAM Diamond Package (DRAM Monthly & Quarterly Datasheet)

DRAM Diamond Quarterly Datasheet

DRAM Fab Capacity Update

- DRAM Makers' Capex
- DRAM Makers' Quarterly DRAM Revenue
- DRAM Makers' Quarterly Revenue Ranking
- DRAM Makers' Capacity Breakdown by Brand
- DRAM Makers' Capacity Breakdown by Fab
- DRAM Makers' Output by Brand
- DRAM Makers' Output by Fab
- Samsung DRAM Fabs' Capacity/Output by Design Rule
- SK Hynix DRAM Fabs' Capacity/Output by Design Rule
- Micron DRAM Fabs' Capacity/Output by Design Rule
- Powerchip DRAM Fabs' Capacity/Output by Design Rule
- Nanya DRAM Fabs' Capacity/Output by Design Rule
- Winbond DRAM Fabs' Capacity/Output by Design Rule
- JHICC DRAM Fabs' Capacity/Output by Design Rule
- CXMT DRAM Fabs' Capacity/Output by Design Rule

DRAM Production Output Update

- Technology Breakdown by Company
- DRAM Makers' Production Output Breakdown by Density
- Density Production Output Breakdown by DRAM Maker
- DRAM Makers' Production Output by Type
- Samsung DRAM Production Output by Type
- SK Hynix DRAM Production Output by Type
- Micron DRAM Production Output by Type
- Nanya DRAM Production Output by Type
- Powerchip DRAM Production Output by Type
- Winbond DRAM Production Output by Type

Prices Forecast

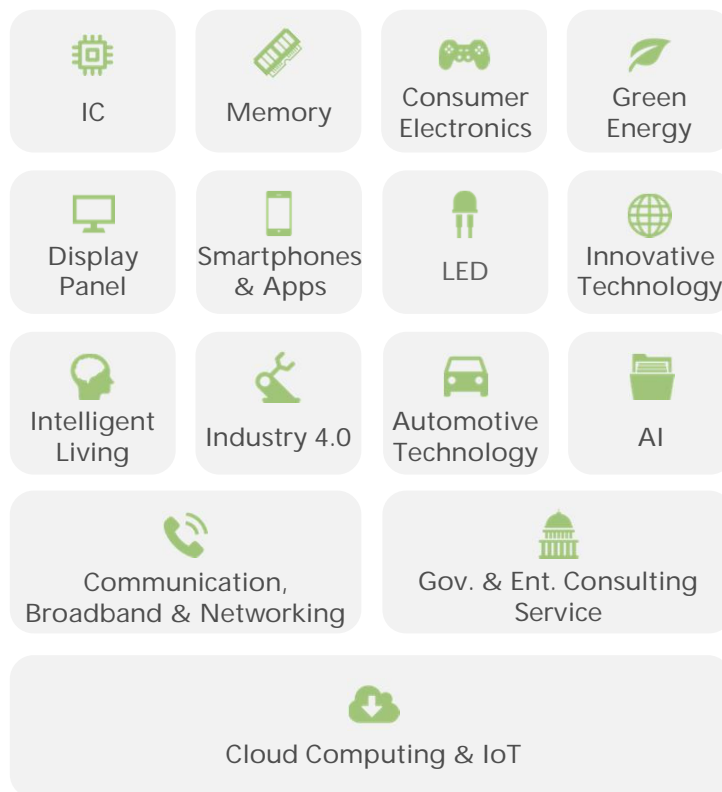
- Spot and Contract Prices Forecast by Quarter



Join DRAMeXchange Market Intelligence Stand on the Shoulders of Giants

If any inquiry, please contact: LatteChung@TrendForce.com

TrendForce & TRI Research Areas



Sales & Services



DRAM, NAND Flash, Foundry

Latte Chung

+886-2-89786488 ext. 817
LatteChung@TrendForce.com



PV, Battery

Melissa Ye

+886-2-89786488 ext. 823
MelissaYe@TrendForce.com



LED, Lighting, Micro-LED

Grace Li

+886-2-89786488 ext. 916
GraceLi@trendforce.com



TFT-LCD, OLED, Smartphone, Tablet, NB, Monitor/AIO, TV

Vivie Liu

+886-2-89786488 ext. 923
VivieLiu@TrendForce.com



Communication & Broadband, Consumer Electronics, Innovative Technological Applications, Automotive, Industry 4.0, Gov. & Ent.

Members Hotline

+886-2-89786488 ext. 612
Service@topology.com.tw

Inquiries & Consultation
Jack Yang

+886-2-89786488 ext. 731
Jackyang@topology.com.tw

Thank You For Listening

To find out more about TrendForce, scan the QRCode below.

Or visit the URL for further information.



English
www.trendforce.com



Traditional Chinese
www.trendforce.com.tw



Simplified Chinese
www.trendforce.cn