



大聯大控股
A Member of WPG Holdings

品佳集團

Silicon Application Corp. Group

大大通在線研討會

Richtek DDR5 PMIC 解決方案

2020 WPG Holdings ranked Global No. 1 Semiconductor Distributor



US\$ M

Ranking 2019	Ranking 2020	Company	Revenue 2019	Revenue 2020	Growth 2019-2020	Share 2020
2	1	WPG Holdings	16,175	✘ 19,702	21.8%	12.8%
1	2	Arrow Electronics	16,209	16,607	2.5%	10.8%
3	3	Avnet	14,193	13,694	-3.5%	8.9%
4	4	WT Microelectronics	10,807	11,949	10.6%	7.8%
5	5	Macnica	3,928	4,277	8.9%	2.8%
7	6	Future Electronics	3,859	3,955	2.5%	2.6%
6	7	Toyota Tsusho	3,859	3,918	1.5%	2.5%
9	8	Supreme Electronics	3,033	3,916	29.1%	2.5%
8	9	Edom Technology	3,119	3,687	18.2%	2.4%
10	10	S.A.S. Dragon	2,195	2,283	4.0%	1.5%
		Others	67,757	69,762	3.0%	45.4%
		Total	145,133	153,749	5.9%	100.0%

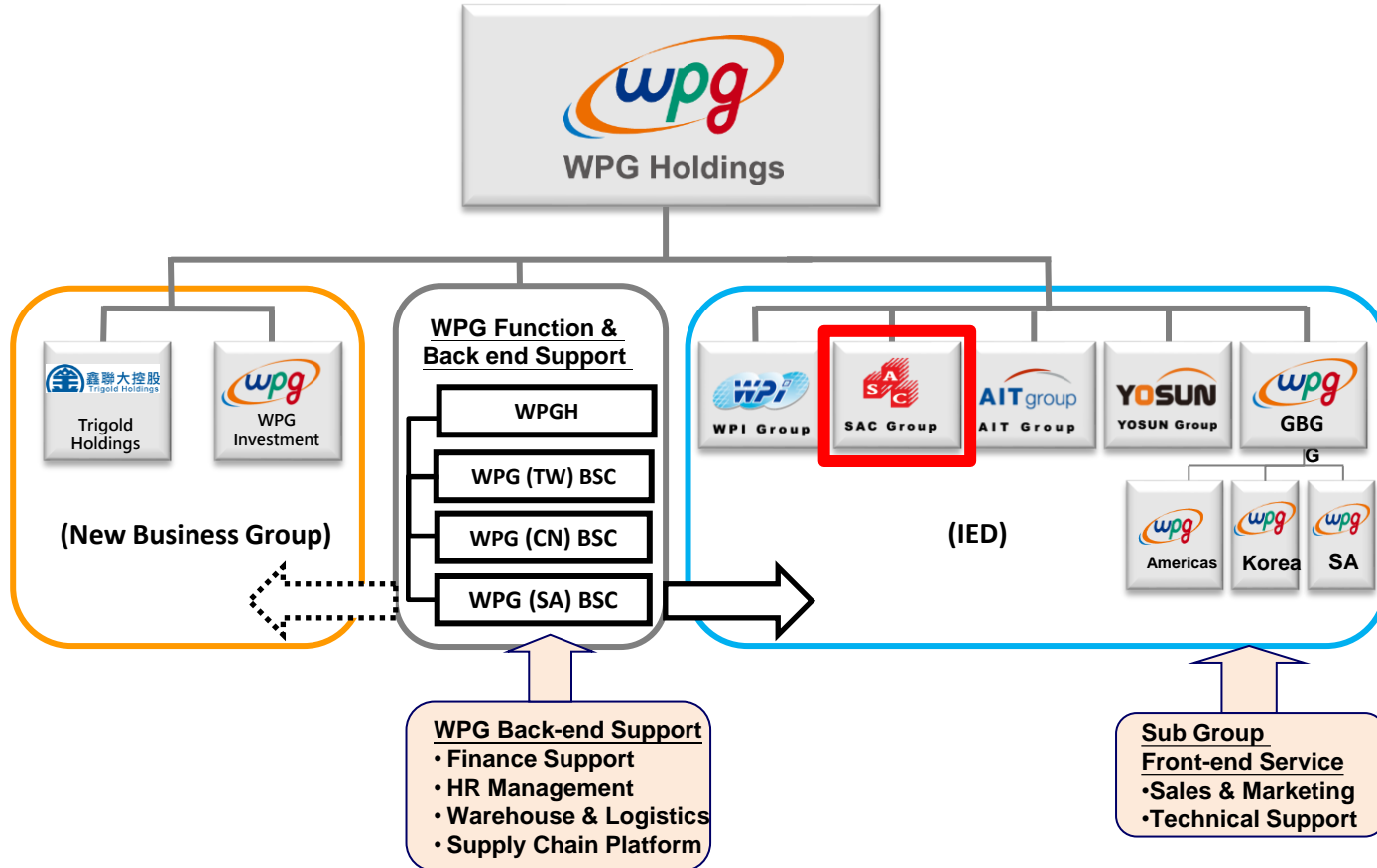
Note: Some columns may not add to totals shown because of rounding.

Source: Gartner (March 2021)

✘ Gartner only counts the semiconductor-related revenue.

WPG Holdings organization

WPIg / SACg / AITg / YOSUNg / GBG / New Business Group



SACG–Superior Suppliers-Top 12



MediaTek



ELan



Infineon



Richtek



NXP



OSRAM



Winbond



Intel



Samsung



Nuvoton



Nexperia



Microchip

About Richtek

A PROFESSIONAL ANALOG IC DESIGN COMPANY

- **Founded: Sep., 1998**
- **Capital: NT\$1.49 Billion**
- **ISO 9001 Certified by TUV NORD**
- **ISO 14001 Certified by TUV NORD**
- **OHSAS 18001 Certified by TUV NORD**
- **Employees: 1181 (TW & W/W)**

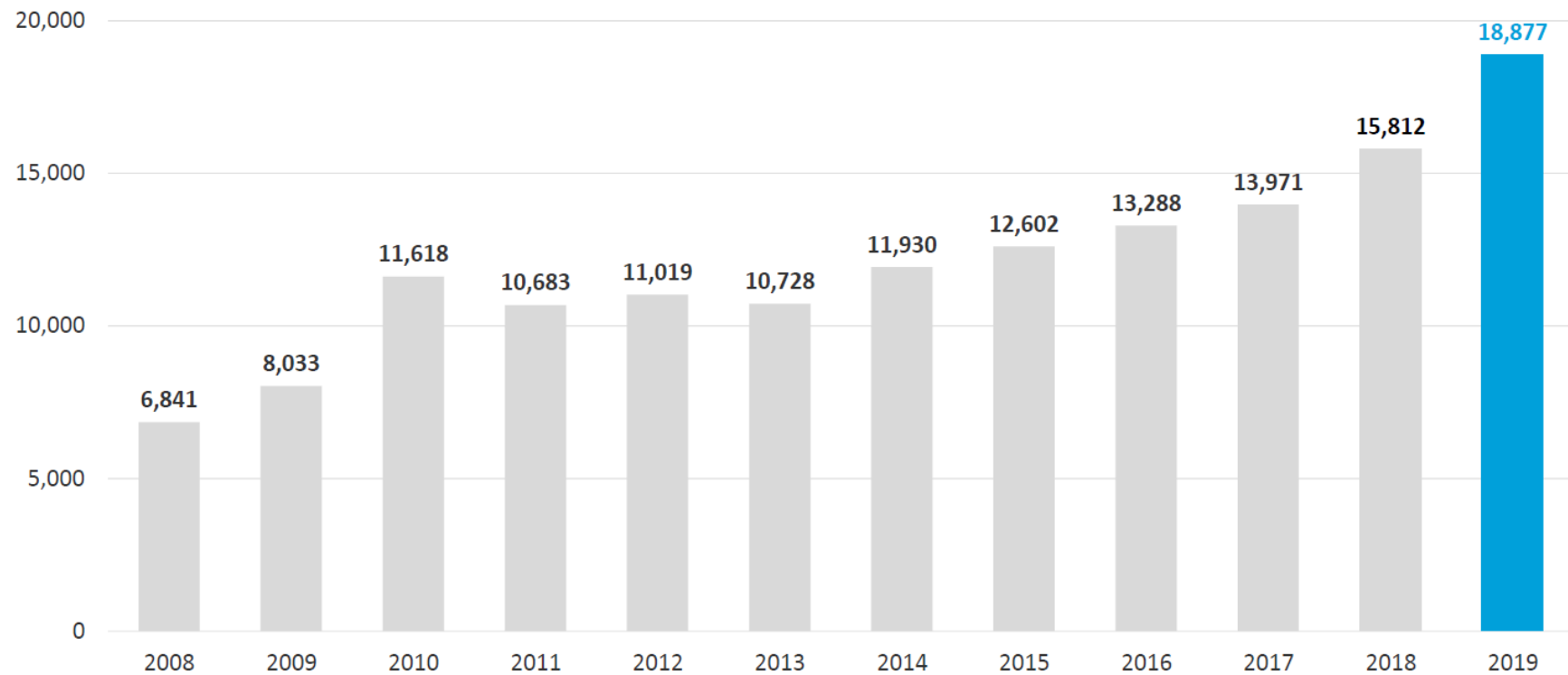
by the end of June, 2020

(Impermanent employee is not included)



Revenue Growth

(M NTD)



Richtek Market Position

2017 Rank	2018 Rank	Company Name	2017 \$M	2018 \$M	2018 Change	Share of Mkt
1	1	Texas Instruments	2,886	3,187	10.4%	25.9%
2	2	Analog Devices	1,197	1,367	14.2%	11.1%
3	3	ON Semiconductor	683	810	18.6%	6.6%
4	4	Maxim Integrated	510	523	2.5%	4.2%
6	5	MediaTek (Richtek)	406	481	18.5%	3.9%
9	6	Infineon Technologies	384	467	21.6%	3.8%
10	7	Monolithic Power Systems	362	444	22.7%	3.6%
8	8	STMicroelectronics	387	414	7.0%	3.4%
5	9	Power Integrations	424	409	-3.5%	3.3%
7	10	Sanken	393	400	1.8%	3.2%

(Millions of \$US)

Source: Gartner (Apr, 2019)

Product Applications

Computing

- Notebook
- Desktop
- Panel
- Peripheral
- VGA Card
- Workstation/Server
- Storage, SSD



Consumer

- TV
- STB
- Tablet
- Game Console
- Wireless charger



Communication

- Smart Phone
- Networking
- Telecom
- Base station



Industrial & Automotive

- Surveillance
- EPOS
- Industrial PC
- Lighting
- Motor drives
- Head unit, ADAS



Product Categories

- Linear Regulators
- Switching Regulators
- Vcore
- Gate Drivers and DrMOS
- Power Switches
- Battery Management
- USB Interface and PD Controllers
- LED Drivers
- Rail to Rail Op Amps
- Multi-Channel Power Management ICs (PMIC)
- Power Monitor, Protection & Reset ICs
- Motor Drivers
- AC-DC
- Audio
- Sensors and Others

How to find RT product

- Richtek website: <http://www.richtek.com/zh-TW>

The screenshot shows the Richtek website interface. On the left is a navigation menu with icons for products, solutions, design support, search, and My Richtek. The main content area is titled '筆記型電腦' (Laptop) and features a laptop image. Below the image are two buttons: '應用架構' (Application Architecture) and '設計支持' (Design Support). A table of Vcore products is displayed, with a red box highlighting it. A red arrow points from a 'Thermal Sensor' box in a block diagram below to the table.

Part Number	Description	Related Products
RT8152C/RT8152D	單相 CPU/GPU 內核供電同步降壓型 DC/DC PWM 控制器	Vcore > Vcore 控制器
RT8167A	雙通道單相 CPU 內核/GFX 供電同步降壓型 DC/DC PWM 控制器	Vcore > Vcore 控制器
RT8167B	雙路單相 PWM 控制器應用於 CPU 和 GPU 內核電源供應	Vcore > Vcore 控制器
RT8856	CPU 內核供電多相 PWM 控制器	Vcore > Vcore 控制器

Please click on the application name of the chart, to view a list of

Thermal Sensor

Block diagram components include: WLED BL, LCD Panel, Panel Switch, Monitor, Docking, Speaker, Head Phone, ASSP SW, Audio Amplifier, LDO, Audio Codec, ODD, STA ODD, CPU, External, Vcore, Vgfx, DDR II, DDR III, DDR, DC/DC, LDO, Switch, Adpt, Battery Charger, Battery, 1394 Controller, IEEE 1394, Mini Card, PCH, 1394 Controller, Mini Card.

<http://www.richtek.com/Applications/Networked%20Commucation>



Thank you

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