RESEARCH BULLETIN

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Texas Instruments Keeps A Firm Grip As World's Top Analog IC Supplier

Top-10 analog suppliers collectively accounted for 68% of total analog sales.

With analog sales of $14.1 billion and 19% marketshare, Texas Instruments maintained its firm grip as the world's leading supplier of analog devices in 2021. TI's 2021 analog sales increased nearly $3.2 billion or 29% compared to 2020, according to IC Insights' *2Q22 Update* to *The McClean Report* that was released in May. TI's 2021 analog revenue accounted for 86% of its $16.3 billion in IC sales and 81% of its $17.3 billion in semiconductor revenue.

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The complete list of top 10 analog IC suppliers for 2021 is shown in Figure 1. IC Insights' ranking includes sales of general-purpose analog components, mixed-signal analog, and application-specific analog devices that have at least 50% analog circuitry on board. This follows the definition established by WSTS that reads, "Devices are classified as analog if at least 50% of the total die area of the integrated circuits(s) in the device is occupied by analog circuitry." As shown, the ranking of top analog suppliers remained unchanged in 2021 compared to 2020.

Leading Analog IC Suppliers ($M)

2021 Rank	Company	Headquarters	2020	2021	21/20 % Chg	2021 Marketshare
1	Texas Instruments	U.S.	10,886	14,050	29%	19.0%
2	Analog Devices	U.S.	7,722	9,355	21%	12.7%
3	Skyworks Solutions	U.S.	3,970	5,910	49%	8.0%
4	Infineon	Europe	3,820	4,800	26%	6.5%
5	ST	Europe	3,259	3,906	20%	5.3%
6	Qorvo	U.S.	3,182	3,875	22%	5.2%
7	NXP	Europe	2,466	3,457	40%	4.7%
8	ON Semi	U.S.	1,606	2,115	32%	2.9%
9	Microchip	U.S.	1,520	1,839	21%	2.5%
10	Renesas	Japan	890	1,110	25%	1.5%
—	Others	—	17,684	23,497	33%	31.8%
	Total	—	57,005	73,914	30%	100%

Figures include sales from acquired companies in 2020 and 2021.

Source: IC Insights, company reports

Figure 1

Six of the top 10 analog companies are based in the U.S., three are headquartered in Europe, and one is based in Japan. Collectively, the top 10 accounted for $50.4 billion in analog IC sales last year, which represented 68% of the total analog market. Among the top 10 analog companies, sales growth ranged from 20% at ST to 49% at Skyworks Solutions.

Second-ranked Analog Devices, Inc. (ADI) saw its 2021 analog IC sales increase 21% to $9.4 billion, which represented 13% marketshare. ADI completed its $28.0 billion acquisition of Maxim Integrated products in August 2021. The company said its analog devices (including devices it obtained through its Maxim acquisition in 2021 and its 2017 acquisition of Linear Technology) address opportunities "from sensor-to-cloud, DC to 100 gigahertz and beyond, and nanowatts to kilowatts." ADI's 2021 analog sales by end-use application were industrial (50%), automotive (21%), communication (15%), and consumer (14%).

Ranked third in 2021 with analog sales of $5.9 billion was Skyworks Solutions, whose 49% jump in revenue was the largest percentage increase among the top analog suppliers last year. Skyworks is focused on front-end modules and power amplifiers for handsets and smartphones, highly integrated SiP and SoC devices for wireless infrastructure, power management chips, precision analog components, WiFi connectivity modules and ICs, and smart energy ICs for ZigBee and Bluetooth applications. Skyworks' largest customer in 2021 was Apple, which accounted for 59% of its sales.

In July 2021, Skyworks acquired the Infrastructure and Automotive business of Silicon Laboratories Inc for $2.75 billion to accelerate its expansion into electric and hybrid vehicles, industrial and motor control, 5G wireless infrastructure, optical data communication, data center, and other applications.

Each of Europe's three major IC suppliers—Infineon, ST, and NXP—was a top 10 analog supplier in 2021. Collectively, the three companies accounted for 16% of global marketshare. Fourth ranked Infineon was the highest-placed European analog supplier with sales of $4.8 billion. Infineon continues to grow its presence in automotive, which accounted for 44% of its 2021 sales compared to 41% in 2020. Power/sensor systems (29%), industrial power control (14%) and connected security (13%) round out its other major end-use applications.

Analog ICs remain a critical component in nearly all digital-centric systems. The analog market typically grows (and declines) at a more tempered rate than the total IC market, but that was not the case in 2021. The analog market grew by 30% last year, while the total IC market increased 26%. Every general purpose and application specific analog product segment enjoyed double-digit sales growth in 2021. Signal conversion revenue grew 13% last year, but revenue in every other analog IC category jumped by at least 27%.

Report Details: *The 2022 McClean Report*

The McClean Report—A Complete Analysis and Forecast of the Semiconductor Industry, is now available. A subscription to *The McClean Report* service includes the January *Semiconductor Industry Flash Report*, which provides clients with IC Insights' initial overview and forecast of the semiconductor industry for this year through 2026. In addition, the second of four *Quarterly Updates* to the report was released in May, with additional *Quarterly Updates* to be released in August and November of this year. An individual user license to the 2022 edition of *The McClean Report* is available for $5,390 and a multi-user worldwide corporate license is available for $8,590. The Internet access password and the information accessible to download will be available through November 2022.

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