

# RESEARCH BULLETIN

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## Covid-19 Expected to Limit Growth Rates For Many IC Products in 2020

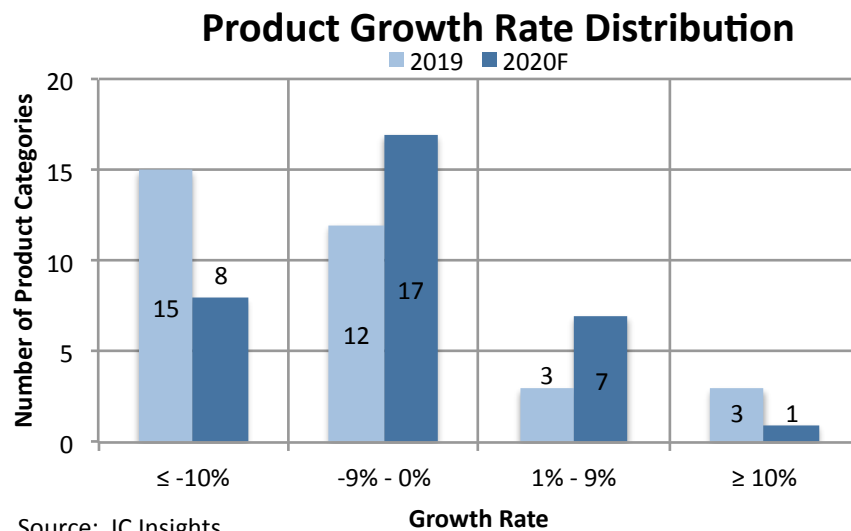
*NAND flash, DRAM, computer CPU, and embedded MPUs show improvement for 2020, but consumers and businesses moving cautiously forward with system purchases.*

IC Insights recently released its *Mid-Year Update to The McClean Report 2020*. The update includes IC Insights' ranking of revenue growth rates for the 33 IC product categories defined by the World Semiconductor Trade Statistics (WSTS) organization.

### MORE INFORMATION CONTACT

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Figure 1 shows the distribution of growth rates for the 33 IC product categories in 2019 and IC Insights' forecast for 2020. Growth rates across most IC segments are expected to improve this year, but not greatly. Eight product categories, led by NAND flash with an expected market increase of 27%, are forecast to see sales gains this year. In 2019, only six IC product categories experienced sales growth. Five product categories are forecast to expand at or above the total IC market growth rate of 3% this year, including both NAND flash and DRAM, which were the two *worst* growth segments in 2019.



**Figure 1**

The list of 33 major IC product categories ranked by forecasted sales growth for 2020 is shown in Figure 2. The list shows the impact that Covid-19 is having across the entire IC industry this year. With consumers and businesses delaying or moving cautiously forward with system purchases, forecast sales for most IC segments have been scaled down. It remains to be seen if and how quickly typical buying patterns will resume. The July-September quarter of each year is usually the strongest for IC sales growth, but even a solid rebound in demand may not be enough to raise IC sales growth much beyond the forecast levels shown.

### IC Products Ranked by 2020F Sales Growth Rates

Product Category	2019	2020F
NAND Flash	-26%	27%
Computer and Peripherals—Spcl Purpose Logic	-1%	6%
Embedded MPUs	9%	5%
Auto—Spcl Purpose Logic	16%	3%
DRAM	-37%	3%
<b>Total IC Market</b>	<b>-15%</b>	<b>3%</b>
Computer CPUs*	-3%	2%
Wired Comm—Spcl Purpose Logic	-1%	1%
Wireless Comm—Spcl Purpose Logic	-10%	1%
Consumer—Special Purpose Logic	-13%	-2%
Cellphone App MPUs	-9%	-3%
NOR Flash	-19%	-3%
32-bit MCU	-4%	-4%
Display Drivers	8%	-4%
Industrial/Other—Spcl Purpose Logic	37%	-4%
Standard Cell	17%	-4%
Wireless Comm—App-Specific Analog	-14%	-4%
PLDs	5%	-5%
Auto—App-Specific Analog	-2%	-6%
Computer—App-Specific Analog	-19%	-7%
Industrial/Other—App-Specific Analog	-8%	-8%
Power Management Analog	-3%	-8%
Consumer—App-Specific Analog	-17%	-9%
EEPROM/ROM/EPROM/Other	-8%	-9%
General Purpose Logic	-17%	-9%
Signal Conversion	-4%	-9%
Amplifiers/Comparators	-7%	-10%
Interface	-13%	-10%
Wired Comm—App-Specific Analog	-13%	-13%
16-bit MCU	-7%	-14%
Gate Array	-11%	-14%
4-/8-bit MCU	-20%	-15%
SRAM	-25%	-18%
DSP	-19%	-19%

\*CPUs in traditional PCs, servers, supercomputers and all other types of computers.

Source: IC Insights

Figure 2

## **Report Details: *The 2020 McClean Report***

Additional details on semiconductor and IC market trends are provided in the *Mid-Year Update to The McClean Report—A Complete Analysis and Forecast of the Integrated Circuit Industry*. A subscription to *The McClean Report* includes **free** monthly updates from March through November (including the *Mid-Year Update*), and **free** access to subscriber-only webinars throughout the year. An individual-user license to *The McClean Report* is priced at \$4,990 and includes an Internet access password. A multi-user worldwide corporate license is available for \$7,990.

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### **About IC Insights**

IC Insights, Inc., based in Scottsdale, Arizona USA, is dedicated to providing high-quality, cost-effective market research for the semiconductor industry. Founded in 1997, IC Insights offers coverage of global economic trends, the semiconductor market forecast, capital spending and fab capacity trends, product market details, and technology trends, as well as complete IC company profiles and evaluations of end-use applications driving demand for ICs.

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