

RESEARCH BULLETIN

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Robust Growth Rates Expected For Nearly All IC Products in 2021

Special Purpose Logic, DRAM, Cellphone MPUs, and Display Drivers forecast to lead industry-wide upturn as demand extends into the second half of the year.

IC Insights recently released its *Mid-Year Update to The McClean Report 2021*. 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 and confirms that vigorous end-use demand is affecting market growth across all product segments.

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Figure 1 shows the distribution of growth rates for the 33 IC product categories in 2020 and IC Insights' forecast for 2021. IC Insights expects 32 of the 33 product categories to experience sales growth this year with 29 product categories expected to see double-digit growth, representing one of the strongest and broadest sales industry outlooks that IC Insights has ever documented. In previous strong-growth years, perhaps a handful of IC products had extraordinary sales gains that helped raise overall IC market growth. But, in 2021, it appears that robust growth has permeated nearly all product categories across the entire IC industry. Only the fading and insignificant gate array market (forecast sales of \$58 million in 2021) is expected to decline in sales.

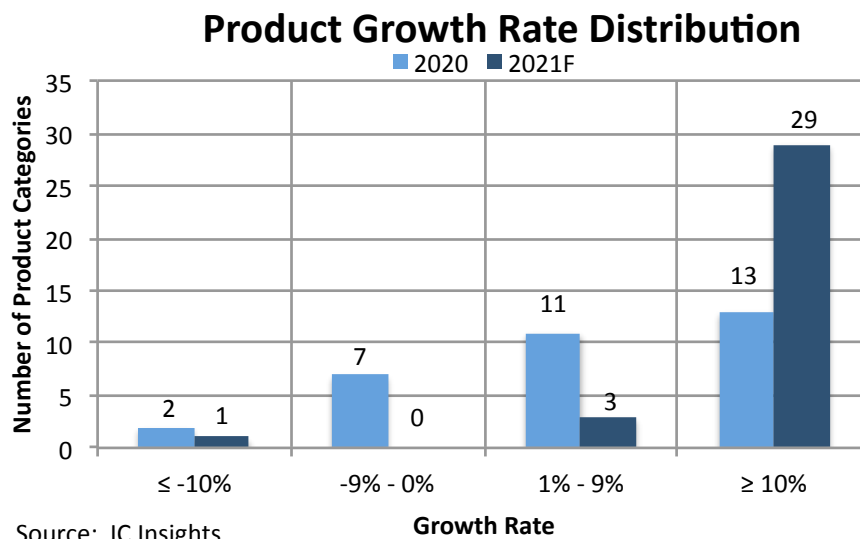


Figure 1

The 33 major IC product categories ranked by their forecast sales percentage growth rates for 2021 are shown in Figure 2. Many Special Purpose Logic categories are forecast to rank high on the growth list this year, along with DRAM, cellphone MPUs, and display drivers, which are all on track to see sales rise by more than 30%, with the total IC market now forecast to rise 24%.

IC Products Ranked by 2021F Sales Growth Rates

Product Category	2020	2021F
<i>Industrial/Other—Spcl Purpose Logic</i>	12%	47%
<i>DRAM</i>	8%	41%
<i>Auto—Spcl Purpose Logic</i>	10%	39%
<i>Consumer—Special Purpose Logic</i>	8%	38%
<i>Cellphone App MPUs</i>	24%	34%
<i>Auto—App-Specific Analog</i>	-7%	31%
<i>Display Drivers</i>	13%	31%
<i>Wireless Comm—App-Specific Analog</i>	8%	28%
<i>Wireless Comm—Spcl Purpose Logic</i>	24%	26%
<i>Consumer—App-Specific Analog</i>	8%	25%
<i>32-bit MCU</i>	3%	24%
<i>Power Management Analog</i>	4%	24%
Total IC Market	13%	24%
<i>Amplifiers/Comparators</i>	1%	22%
<i>DSP</i>	-10%	22%
<i>Industrial/Other—App-Specific Analog</i>	2%	22%
<i>NAND Flash</i>	25%	22%
<i>Computer and Peripherals—Spcl Purpose Logic</i>	31%	21%
<i>General Purpose Logic</i>	3%	21%
<i>Interface</i>	10%	21%
<i>NOR Flash</i>	0%	21%
<i>Computer—App-Specific Analog</i>	6%	18%
<i>Wired Comm—App-Specific Analog</i>	17%	18%
<i>Wired Comm—Spcl Purpose Logic</i>	12%	15%
<i>16-bit MCU</i>	-8%	13%
<i>EEPROM/ROM/EPROM/Other</i>	-2%	13%
<i>Signal Conversion</i>	-2%	13%
<i>Embedded MPUs</i>	11%	11%
<i>PLDs</i>	-5%	10%
<i>Standard Cell</i>	-4%	10%
<i>SRAM</i>	5%	8%
<i>Computer CPUs*</i>	14%	4%
<i>4-/8-bit MCU</i>	-10%	3%
<i>Gate Array</i>	28%	-33%

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

Source: IC Insights

Figure 2

Report Details: The 2021 McClean Report

The 2021 edition of *The McClean Report—A Complete Analysis and Forecast of the Integrated Circuit Industry* was released in January 2021 and the *Mid-Year Update* in July 2021. A subscription to *The McClean Report* includes **free** monthly updates from March through November (including a 180+ page *Mid-Year Update*), and **free** access to subscriber-only pre-recorded webcasts through November. An individual user license to the 2021 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 2021.

<https://www.icinsights.com/services/mcclean-report/pricing-order-forms/>

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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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