

Semico Wafer Demand: Q4 2021 Highlights

December 2021
MA113-21

©Copyright Semico Research Corp. 2021. All rights reserved.

Reproduction in whole or part is prohibited without permission of Semico Research

The contents of this report represent the interpretation and analysis of statistics and information that is generally available to the public or released by responsible agencies or individuals, but is not guaranteed as to its accuracy or completeness.

Table of Contents

Table of Contents	3
Summary	4
Forecast Highlights	5
Overall Market	5
DRAM	7
NAND	8
Microprocessors (MPU).....	9
Microcontrollers (MCU).....	10
MOS Logic	11
Communication MOS Logic	11
Computing MOS Logic.....	12
Consumer MOS Logic.....	12
Automotive MOS Logic	13
Analog	15
Sensors	16
Optoelectronics	17
Units, Wafers and Foundry	18
Appendix	19
Wafer Demand Forecast Methodology	19
Product Definitions	20
Process Technology Node Definitions	23

List of Figures

Figure 1. Total Semiconductor Revenue, Units & Wafer Demand	5
Figure 2. DRAM Revenue, Unit & Wafer Demand	7
Figure 3. NAND Revenue, Unit & Wafer Demand	8
Figure 4. MCU Revenue, Unit & Wafer Demand	10
Figure 5. MOS Logic Communication Wafer Demand by Application	11
Figure 6. MOS Logic Consumer Revenue, Unit & Wafer Demand	13
Figure 7. MOS Logic Automotive Revenue, Unit & Wafer Demand	14
Figure 8. Analog Revenues, Units and Wafer Demand	15
Figure 9. Sensor Revenues, Units and Wafer Demand	16
Figure 10. Optoelectronics Revenues, Units and Wafer Demand	17
Figure 11. Units, Wafers and Foundry Growth	18
Figure 12. Semico Wafer Demand Methodology.....	20
Figure 13. Process Technology Node Definitions	23