

[illegible]

SS Transistor	
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2021	
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2022	2023	2024
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[illegible]

[illegible]

[illegible]

IGBT PwrTr

2021	
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22	2023	2024
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[illegible]

[illegible][illegible][illegible]

D99 - Rectifier

WSTS Semiconductor Forecast

D99 - Rectifier

[illegible]

E99 - Thyristor

WSTS Semiconductor Forecast

E99 - Thyristor

[illegible]

Other Discrete Code G99	
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	2021		
Q4	Total	Q1	Q2

2022	2023	2024
Total	Total	Total

[illegible]

S3 - Discrete Total

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S3 - Discrete Total

Discrete Total Code S3	2019 Total	2020 Total	2021				2021 Total	2022				2022 Total	2023 Total	2024 Total
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4			
Amer - \$M	2381.6	2091.3	633.5	702.4	725.1	733.6	2794.6	737.3	758.0	772.2	756.3	3023.7	3092.2	3247.2
3/3 % \$	5.3	-12.2	17.2	10.9	3.2	1.2	33.6	0.5	2.8	1.9	-2.1	8.2	2.3	5.0
% of World	10.0	8.8	8.9	9.3	9.4	9.5	9.3	9.4	9.4	9.4	9.4	9.4	9.3	9.3
Europe - \$M	4315.9	3855.3	1284.0	1322.5	1313.6	1312.7	5232.8	1359.7	1400.4	1404.4	1375.3	5539.7	5691.8	5986.8
3/3 % \$	0.3	-10.7	24.3	3.0	-0.7	-0.1	35.7	3.6	3.0	0.3	-2.1	5.9	2.7	5.2
% of World	18.1	16.2	18.0	17.6	16.9	17.0	17.4	17.3	17.3	17.0	17.0	17.2	17.1	17.1
Japan - \$M	3498.9	3516.3	1045.4	1054.4	1058.0	1066.7	4224.5	1080.1	1097.5	1111.2	1106.4	4395.1	4554.5	4822.3
3/3 % \$	2.6	0.5	9.3	0.9	0.3	0.8	20.1	1.3	1.6	1.3	-0.4	4.0	3.6	5.9
% of World	14.7	14.8	14.7	14.0	13.7	13.8	14.0	13.8	13.5	13.5	13.7	13.6	13.7	13.7
JPN - ¥100M	3810.4	3755.5	1107.4	1153.7	1164.1	1173.6	4598.8	1188.4	1207.5	1222.6	1217.3	4835.7	5011.0	5305.7
3/3 % ¥	1.2	-1.4	10.8	4.2	0.9	0.8	22.5	1.3	1.6	1.3	-0.4	5.2	3.6	5.9
Asia Pac - \$M	13684.2	14341.5	4150.5	4451.7	4653.9	4591.7	17847.7	4662.1	4847.0	4963.8	4848.7	19321.6	19918.3	21037.7
3/3 % \$	-3.1	4.8	9.6	7.3	4.5	-1.3	24.4	1.5	4.0	2.4	-2.3	8.3	3.1	5.6
% of World	57.3	60.2	58.3	59.1	60.0	59.6	59.3	59.5	59.8	60.2	60.0	59.9	59.9	59.9
World - \$M	23880.6	23804.5	7113.4	7531.0	7750.6	7704.6	30099.6	7839.1	8102.8	8251.6	8086.7	32280.2	33256.9	35094.0
3/3 % \$	-0.9	-0.3	12.6	5.9	2.9	-0.6	26.4	1.7	3.4	1.8	-2.0	7.2	3.0	5.5
A99 - Diode	2794.5	2723.4	852.2	928.0	988.8	978.9	3747.9	976.0	1016.1	1028.8	999.7	4020.6	4066.0	4204.1
3/3 % \$	-11.2	-2.5	15.9	8.9	6.6	-1.0	37.6	-0.3	4.1	1.2	-2.8	7.3	1.1	3.4
B99 - SS Transistor	1967.5	1960.5	598.9	618.0	637.8	637.5	2492.1	644.2	657.2	674.4	667.4	2643.2	2673.4	2811.2
3/3 % \$	-6.9	-0.4	11.0	3.2	3.2	0.0	27.1	1.0	2.0	2.6	-1.0	6.1	1.1	5.2
C99 - Pwr Transist	15108.8	15006.7	4415.1	4686.1	4783.4	4745.5	18630.0	4869.6	5044.8	5132.4	5021.0	20067.8	20893.0	22218.5
3/3 % \$	4.6	-0.7	11.2	6.1	2.1	-0.8	24.1	2.6	3.6	1.7	-2.2	7.7	4.1	6.3
D99 - Rectifier	3208.7	3295.0	1017.7	1049.2	1066.8	1072.0	4205.7	1087.6	1116.5	1144.1	1132.3	4480.6	4521.9	4724.1
3/3 % \$	-7.3	2.7	17.2	3.1	1.7	0.5	27.6	1.5	2.7	2.5	-1.0	6.5	0.9	4.5
E99 - Thyristor	660.7	640.7	176.7	202.2	225.7	221.7	826.4	214.6	219.3	222.2	215.1	871.3	897.4	921.4
3/3 % \$	-15.2	-3.0	12.7	14.4	11.6	-1.8	29.0	-3.2	2.2	1.3	-3.2	5.4	3.0	2.7
G99 - Other Discrete	140.3	178.2	52.8	47.6	48.1	49.0	197.4	47.1	48.8	49.7	51.1	196.8	205.2	214.8
3/3 % \$	-9.3	27.0	17.3	-9.9	1.1	1.9	10.8	-3.9	3.7	1.8	2.8	-0.3	4.3	4.7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F99 - Optoelectronics

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F99 - Optoelectronics

Optoelectronics Code F99	2019 Total	2020 Total			2021 Q3	2021 Q4	2021 Total			2022 Q3	2022 Q4	2022 Total	2023 Total	2024 Total
Amer - \$M	6170.8	7211.9	1617.3	1608.9	2390.3	2494.4	8110.9	2133.6	2065.9	2440.8	2521.0	9161.3	9633.9	10772.1
3/3 % \$	1.2	16.9	-31.4	-0.5	48.6	4.4	12.5	-14.5	-3.2	18.1	3.3	13.0	5.2	11.8
% of World	14.8	17.9	15.2	15.6	21.6	22.1	18.8	19.6	18.7	20.4	21.0	19.9	20.0	20.6
Europe - \$M	3344.6	3194.8	931.3	945.0	921.7	939.5	3737.5	959.1	952.5	993.6	995.6	3900.8	4029.7	4267.3
3/3 % \$	8.3	-4.5	12.4	1.5	-2.5	1.9	17.0	2.1	-0.7	4.3	0.2	4.4	3.3	5.9
% of World	8.0	7.9	8.8	9.2	8.3	8.3	8.6	8.8	8.6	8.3	8.3	8.5	8.4	8.2
Japan - \$M	5085.6	4446.5	1202.0	1212.9	1287.9	1341.2	5044.0	1306.8	1306.0	1366.3	1391.5	5370.6	5341.0	5771.7
3/3 % \$	-7.1	-12.6	7.7	0.9	6.2	4.1	13.4	-2.6	-0.1	4.6	1.8	6.5	-0.6	8.1
% of World	12.2	11.0	11.3	11.8	11.7	11.9	11.7	12.0	11.8	11.4	11.6	11.7	11.1	11.1
JPN - ¥100M	5539.2	4753.2	1273.4	1327.1	1417.0	1475.7	5493.1	1437.8	1436.9	1503.2	1531.0	5908.9	5876.3	6350.2
3/3 % ¥	-8.3	-14.2	9.2	4.2	6.8	4.1	15.6	-2.6	-0.1	4.6	1.8	7.6	-0.6	8.1
Asia Pac - \$M	26960.0	25544.3	6864.1	6527.3	6442.4	6502.8	26336.6	6505.0	6752.0	7178.4	7121.4	27556.8	29091.5	31406.3
3/3 % \$	15.4	-5.3	1.8	-4.9	-1.3	0.9	3.1	0.0	3.8	6.3	-0.8	4.6	5.6	8.0
% of World	64.9	63.2	64.7	63.4	58.3	57.7	60.9	59.7	61.0	59.9	59.2	59.9	60.5	60.1
World - \$M	41561.0	40397.4	10614.8	10294.2	11042.3	11277.9	43229.1	10904.5	11076.4	11979.1	12029.5	45989.6	48096.1	52217.4
3/3 % \$	9.3	-2.8	-3.9	-3.0	7.3	2.1	7.0	-3.3	1.6	8.1	0.4	6.4	4.6	8.6
F1 - Display	347.3	284.6	96.1	117.3	125.9	122.7	462.0	126.4	126.3	130.2	130.0	512.9	541.8	606.9
3/3 % \$	6.9	-18.1	48.1	22.0	7.4	-2.6	62.3	3.0	0.0	3.1	-0.1	11.0	5.6	12.0
F10 - LIGHT SENSOR	1985.8	1652.5	563.8	469.1	531.5	553.4	2117.9	523.0	530.3	611.8	633.1	2298.2	2476.9	2675.2
3/3 % \$	77.5	-16.8	-6.6	-16.8	13.3	4.1	28.2	-5.5	1.4	15.4	3.5	8.5	7.8	8.0
F2 - Lamp	12539.8	11555.2	3030.4	3092.0	3167.6	3218.4	12508.4	3176.1	3186.2	3306.5	3359.1	13027.9	13432.8	14640.7
3/3 % \$	-5.0	-7.9	-1.0	2.0	2.4	1.6	8.2	-1.3	0.3	3.8	1.6	4.2	3.1	9.0
F3 - Coupler	1517.0	1549.3	460.6	484.7	526.7	537.2	2009.3	521.0	529.8	559.6	560.0	2170.4	2271.6	2392.8
3/3 % \$	-7.9	2.1	10.6	5.2	8.7	2.0	29.7	-3.0	1.7	5.6	0.1	8.0	4.7	5.3
F5 - Image_Sensor	19323.0	19448.8	4902.2	4429.2	4992.0	5131.9	19455.3	4847.5	4964.8	5566.2	5540.7	20919.3	22058.7	23972.6
3/3 % \$	24.8	0.7	-9.1	-9.7	12.7	2.8	0.0	-5.5	2.4	12.1	-0.5	7.5	5.4	8.7
F6 - Oth_Opto	2415.2	2289.6	567.4	614.7	596.6	609.8	2388.5	601.2	610.7	622.1	628.1	2462.1	2540.7	2745.6
3/3 % \$	-22.4	-5.2	-1.8	8.3	-2.9	2.2	4.3	-1.4	1.6	1.9	1.0	3.1	3.2	8.1
F7 - Infrared	1045.5	919.4	265.5	305.4	302.3	301.6	1174.8	299.5	306.0	313.0	310.8	1229.3	1260.3	1370.0
3/3 % \$	-5.6	-12.1	21.1	15.1	-1.0	-0.2	27.8	-0.7	2.2	2.3	-0.7	4.6	2.5	8.7
F8 - Lsr_Pickup	499.2	627.6	190.5	216.2	215.6	214.6	836.8	216.8	226.7	239.3	239.3	922.0	967.9	1046.9
3/3 % \$	46.2	25.7	9.3	13.5	-0.3	-0.5	33.3	1.1	4.5	5.6	0.0	10.2	5.0	8.2
F9 - Lsr_Transmitter	1888.1	2070.5	538.3	565.7	584.1	588.3	2276.3	593.1	595.6	630.4	628.5	2447.6	2545.3	2766.8
3/3 % \$	10.4	9.7	0.9	5.1	3.3	0.7	9.9	0.8	0.4	5.8	-0.3	7.5	4.0	8.7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

[illegible]

Analog Code J99

	2021		
Q4	Total	Q1	Q2

2023	2024
Total	Total

[illegible]

[illegible]

App Spec Analog Code JA	
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	2021		
Q4	Total	Q1	Q2

2022	2023	2024
Total	Total	Total

[illegible]

Consumer Analog	
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2021	
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2022	2023	2024
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[illegible]

JC - Computer Analog

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JC - Computer Analog

[illegible]

Communic Analog
Code JD

2021		2022	
Q4	Total	Q1	Q2

2022	2023
Total	Total

[illegible]

[illegible][illegible][illegible]

MOS Micro
Code P99

2021		2020	
Q4	Total	Q1	Q2

22	2023	2024
al	Total	Total

[illegible]

P1 - MOS MPU

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P1 - MOS MPU

[illegible]

MOS MCU Code P2	2019 Total	2020 Total	2021		2021		2022				2022	2023	2024	
			Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Total	Total
Amer - \$M	1922.8	1727.0	488.8	546.8	585.6	591.9	2213.1	580.2	586.5	613.6	610.1	2390.4	2500.3	2637.7
3/3 % \$	-6.3	-10.2	6.2	11.9	7.1	1.1	28.1	-2.0	1.1	4.6	-0.6	8.0	4.6	5.5
% of World	12.2	11.2	11.0	11.8	11.7	11.6	11.5	11.4	11.3	11.4	11.5	11.4	11.4	11.3
Europe - \$M	3607.0	3364.0	1010.2	1026.6	1059.4	1079.0	4175.2	1098.6	1118.1	1154.9	1134.6	4506.2	4666.8	4908.0
3/3 % \$	-10.4	-6.7	8.4	1.6	3.2	1.8	24.1	1.8	1.8	3.3	-1.8	7.9	3.6	5.2
% of World	22.8	21.7	22.8	22.2	21.1	21.1	21.7	21.6	21.5	21.5	21.5	21.5	21.2	21.1
Japan - \$M	2488.9	2208.5	606.8	552.6	641.2	662.7	2463.3	655.0	668.4	685.5	683.0	2692.0	2810.6	2952.4
3/3 % \$	-9.5	-11.3	0.8	-8.9	16.0	3.4	11.5	-1.2	2.0	2.6	-0.4	9.3	4.4	5.0
% of World	15.7	14.3	13.7	11.9	12.8	12.9	12.8	12.8	12.8	12.7	12.9	12.8	12.8	12.7
JPN - ¥100M	2709.2	2358.1	642.8	604.7	705.4	729.2	2682.1	720.7	735.4	754.2	751.5	2961.8	3092.3	3248.4
3/3 % ¥	-10.7	-13.0	2.2	-5.9	16.7	3.4	13.7	-1.2	2.0	2.6	-0.4	10.4	4.4	5.0
Asia Pac - \$M	7789.2	8184.4	2323.3	2508.7	2739.8	2785.9	10357.7	2764.1	2837.0	2924.9	2855.7	11381.7	11988.5	12757.7
3/3 % \$	-5.5	5.1	-2.1	8.0	9.2	1.7	26.6	-0.8	2.6	3.1	-2.4	9.9	5.3	6.4
% of World	49.3	52.9	52.5	54.1	54.5	54.4	53.9	54.2	54.5	54.4	54.1	54.3	54.6	54.9
World - \$M	15807.9	15483.9	4429.1	4634.8	5026.0	5119.5	19209.4	5098.0	5210.0	5378.9	5283.4	20970.2	21966.3	23255.7
3/3 % \$	-7.4	-2.0	1.4	4.6	8.4	1.9	24.1	-0.4	2.2	3.2	-1.8	9.2	4.7	5.9
P2a - 4b MCU	72.3	61.7	21.4	22.2	19.9	20.0	83.5	18.4	18.0	18.5	18.3	73.2	73.1	73.0
3/3 % \$	-4.4	-14.7	8.0	3.7	-10.4	0.6	35.3	-7.9	-2.2	2.4	-1.0	-12.3	-0.1	-0.2
P2b - 8b MCU	2466.0	2228.9	550.7	564.1	570.3	578.5	2263.6	568.4	580.3	587.8	581.3	2317.8	2372.7	2436.8
3/3 % \$	-20.7	-9.6	-4.2	2.4	1.1	1.4	1.6	-1.7	2.1	1.3	-1.1	2.4	2.4	2.7
P2c - 16b MCU	3798.5	3483.1	969.3	1085.1	1127.2	1140.0	4321.7	1126.0	1162.8	1192.9	1173.7	4655.3	4877.6	5163.0
3/3 % \$	-6.6	-8.3	7.0	12.0	3.9	1.1	24.1	-1.2	3.3	2.6	-1.6	7.7	4.8	5.9
P2d - >=32b MCU	9471.0	9710.2	2887.7	2963.3	3308.5	3381.0	12540.6 </							

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L99 - MOS Logic

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L99 - MOS Logic

[illegible]

MOS Std Logic	2019	2020	2021				2021	2022				2022	2023	2024
Code LS	Total	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Total	Total
Amer - \$M	4193.9	3946.7	1047.2	1116.2	1281.8	1316.3	4761.5	1279.3	1297.3	1374.6	1381.4	5332.6	5737.4	6224.5
3/3 % \$	3.0	-5.9	1.5	6.6	14.8	2.7	20.6	-2.8	1.4	6.0	0.5	12.0	7.6	8.5
% of World	17.4	15.6	14.6	13.7	14.2	14.3	14.2	14.4	14.4	14.2	14.1	14.3	14.4	14.7
Europe - \$M	2584.8	2115.5	508.8	535.1	630.6	647.0	2321.5	632.6	639.9	669.6	672.4	2614.6	2747.8	2885.3
3/3 % \$	-12.9	-18.2	-8.7	5.2	17.8	2.6	9.7	-2.2	1.2	4.6	0.4	12.6	5.1	5.0
% of World	10.7	8.4	7.1	6.6	7.0	7.0	6.9	7.1	7.1	6.9	6.9	7.0	6.9	6.8
Japan - \$M	2073.1	2016.4	557.0	625.6	671.1	693.6	2547.3	673.5	679.6	721.8	726.9	2801.8	2970.2	3133.6
3/3 % \$	-10.1	-2.7	7.3	12.3	7.3	3.4	26.3	-2.9	0.9	6.2	0.7	10.0	6.0	5.5
% of World	8.6	8.0	7.7	7.7	7.4	7.5	7.6	7.6	7.5	7.4	7.4	7.5	7.4	7.4
JPN - ¥100M	2259.8	2154.0	590.0	684.5	738.3	763.1	2776.0	741.0	747.7	794.2	799.7	3082.6	3267.9	3447.7
3/3 % ¥	-11.2	-4.7	8.8	16.0	7.9	3.4	28.9	-2.9	0.9	6.2	0.7	11.0	6.0	5.5
Asia Pac - \$M	15295.3	17198.5	5077.7	5881.2	6425.0	6536.3	23920.1	6293.2	6400.6	6927.1	7007.4	26628.4	28489.1	30088.6
3/3 % \$	14.1	12.4	4.0	15.8	9.2	1.7	39.1	-3.7	1.7	8.2	1.2	11.3	7.0	5.6
% of World	63.3	68.0	70.6	72.1	71.3	71.1	71.3	70.9	71.0	71.5	71.6	71.2	71.3	71.1
World - \$M	24147.1	25277.2	7190.6	8158.1	9008.5	9193.2	33550.4	8878.6	9017.5	9693.2	9788.1	37377.4	39944.5	42332.0
3/3 % \$	6.1	4.7	2.9	13.5	10.4	2.1	32.7	-3.4	1.6	7.5	1.0	11.4	6.9	6.0
L1 - Bipolar Digital	51.1	61.2	17.5	20.6	18.5	18.3	74.8	18.3	18.5	18.2	18.2	73.2	74.3	76.5
3/3 % \$	-13.5	19.8	13.8	17.9	-10.1	-1.1	22.2	-0.1	1.5	-1.9	0.2	-2.1	1.5	2.9
L2a - MOS GP Logic	1204.9	1243.4	380.1	406.4	387.1	381.1	1554.7	392.8	399.2	413.3	409.5	1614.8	1630.7	1682.3
3/3 % \$	-16.8	3.2	11.4	6.9	-4.7	-1.5	25.0	3.1	1.6	3.5	-0.9	3.9	1.0	3.2
L2b - MOS Gate Arra	67.0	86.0	13.9	13.1	19.0	20.8	66.9	15.5	15.9	15.4	14.6	61.5	58.8	58.3
3/3 % \$	-10.9	28.3	-38.5	-6.2	45.6	9.4	-22.2	-25.6	2.9	-3.1	-5.6	-8.1	-4.3	-0.8
L2c - MOS Std Cell, I	13509.9	13428.8	3494.8	3892.9	4360.0	4461.2	16209.0	4401.6	4439.0	4668.3	4672.5	18181.5	19135.1	20140.6
3/3 % \$	11.7	-0.6	-0.5	11.4	12.0	2.3	20.7	-1.3	0.8	5.2	0.1	12.2	5.2	5.3
L3 - MOS Display Dri	6261.6	7073.6	2195.2	2642.8	2935.0	2951.0	10724.0	2756.7	2806.9	3152.6	3204.1	11920.2	12813.5	13565.2
3/3 % \$	7.6	13.0	2.5	20.4	11.1	0.5	51.6	-6.6	1.8	12.3	1.6	11.2	7.5	5.9
L4 - MOS Touch Scr	3052.6	3384.1	1089.0	1182.3	1288.8	1360.7	4920.8	1293.7	1337.9	1425.4	1469.2	5526.2	6232.0	6809.2

L1 - Bipolar Digital

WSTS Semiconductor Forecast

L1 - Bipolar Digital

[illegible]

MOS GP Logic

2021	
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2022	2023	2024
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[illegible]

MOS Gate Arrays

2021	
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2022	2023	2024
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[illegible]

[illegible][illegible][illegible]

L3 - MOS Display Driver

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L3 - MOS Display Driver

[illegible]

[illegible][illegible][illegible]

[illegible]

L5 - Consumer SP Logic

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L5 - Consumer SP Logic

[illegible]

Computer SP Logic
Code L6

	2021		
Q4	Total	Q1	Q2

2022 Total	2023 Total
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[illegible]

[illegible][illegible][illegible]

[illegible][illegible][illegible]

L9 - Multipurpose SP Logic

WSTS Semiconductor Forecast

L9 - Multipurpose SP Logic

[illegible]

MOS Memory Code	2019 Total	2020 Total	2021		2021 Total	2022		2022 Total	2023 Total	2024 Total				
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4			
Amer - \$M	28425.6	38646.5	9291.5	12351.1	13967.1	15075.7	50685.4	14013.8	14150.6	14447.6	14497.2	57109.2	60179.3	62829.7
3/3 % \$	-44.9	36.0	5.1	32.9	13.1	7.9	31.2	-7.0	1.0	2.1	0.3	12.7	5.4	4.4
% of World	26.7	32.9	29.1	32.3	32.9	33.1	32.0	33.4	33.5	33.2	33.0	33.3	33.5	33.3
Europe - \$M	5786.3	6692.5	1871.2	2130.4	2196.8	2279.6	8478.1	2110.9	2125.1	2120.0	2061.4	8417.3	8863.2	9720.3
3/3 % \$	-27.6	15.7	-0.1	13.9	3.1	3.8	26.7	-7.4	0.7	-0.2	-2.8	-0.7	5.3	9.7
% of World	5.4	5.7	5.9	5.6	5.2	5.0	5.4	5.0	5.0	4.9	4.7	4.9	4.9	5.2
Japan - \$M	5241.1	6761.0	1388.8	1833.5	2180.8	2299.5	7702.7	2052.4	2054.6	2184.1	2324.1	8615.3	8823.5	9146.2
3/3 % \$	-26.4	29.0	-33.3	32.0	18.9	5.4	13.9	-10.7	0.1	6.3	6.4	11.8	2.4	3.7
% of World	4.9	5.8	4.4	4.8	5.1	5.0	4.9	4.9	4.9	5.0	5.3	5.0	4.9	4.8
JPN - ¥100M	5702.2	7198.7	1471.2	2006.2	2399.4	2530.0	8406.8	2258.1	2260.6	2403.1	2557.0	9478.8	9707.9	10062.9
3/3 % ¥	-27.4	26.2	-32.4	36.4	19.6	5.4	16.8	-10.7	0.1	6.3	6.4	12.8	2.4	3.7
Asia Pac - \$M	66986.9	65382.6	19354.3	21958.5	24066.5	25915.4	91294.8	23790.3	23966.1	24768.1	25015.5	97540.0	101919.0	107018.0
3/3 % \$	-26.6	-2.4	27.4	13.5	9.6	7.7	39.6	-8.2	0.7	3.3	1.0	6.8	4.5	5.0
% of World	62.9	55.7	60.7	57.4	56.7	56.9	57.7	56.7	56.7	56.9	57.0	56.8	56.7	56.7
World - \$M	106440.0	117482.5	31905.9	38273.5	42411.2	45570.3	158160.9	41967.5	42296.4	43519.8	43898.2	171681.9	179785.0	188714.3
3/3 % \$	-32.6	10.4	14.0	20.0	10.8	7.4	34.6	-7.9	0.8	2.9	0.9	8.5	4.7	5.0
M1 - MOS DRAM	62474.7	64323.6	19149.2	23530.5	25709.0	26162.4	94551.1	24165.7	24426.1	25336.3	25889.7	99817.7	103993.0	110766.7
3/3 % \$	-37.1	3.0	23.3	22.9	9.3	1.8	47.0	-7.6	1.1	3.7	2.2	5.6	4.2	6.5
M2 - TOTAL MOS SR	303.6	320.8	89.0	82.6	81.7	78.8	332.0	79.8	81.3	80.5	75.5	317.1	307.9	302.3
3/3 % \$	-25.1	5.7	11.7	-7.1	-1.1	-3.5	3.5	1.3	1.8	-0.9	-6.2	-4.5	-2.9	-1.8
M6 - Other Memory	1098.1	937.7	264.8	277.9	283.5	278.5	1104.6	268.8	281.8	290.2	289.3	1130.1	1120.8	1115.9
3/3 % \$	-15.6	-14.6	7.9	5.0	2.0	-1.8	17.8	-3.5	4.8	3.0	-0.3	2.3	-0.8	-0.4
M7A - NOR Flash	1760.5	1762.0	547.2	672.1	846.1	820.4	2885.8	736.3	752.0	766.6	744.7	2999.6	2969.0	2959.9
3/3 % \$	-18.9	0.1	23.0	22.8	25.9	-3.0	63.8	-10.3	2.1	1.9	-2.9	3.9	-1.0	-0.3
M7B - NANDFlash	40180.0	49390.1	11750.4	13570.6	15313.3	18047.1	58681.5	16622.8	16668.5	16888.9	16701.1	66881.3	70882.3	73070.2
3/3 % \$	-25.9	22.9	2.4	15.5	12.8	17.9	18.8	-7.9	0.3	1.3	-1.1	14.0	6.0	3.1
M8 - ROM & EPROM	623.0	748.3	105.4	139.9	177									

MOS Memory Code	2019 Total	2020 Total	2021		2021 Total	2022		2022 Total	2023 Total	2024 Total				
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4			
Amer - \$M	28425.6	38646.5	9291.5	12351.1	13967.1	15075.7	50685.4	14013.8	14150.6	14447.6	14497.2	57109.2	60179.3	62829.7
3/3 % \$	-44.9	36.0	5.1	32.9	13.1	7.9	31.2	-7.0	1.0	2.1	0.3	12.7	5.4	4.4
% of World	26.7	32.9	29.1	32.3	32.9	33.1	32.0	33.4	33.5	33.2	33.0	33.3	33.5	33.3
Europe - \$M	5786.3	6692.5	1871.2	2130.4	2196.8	2279.6	8478.1	2110.9	2125.1	2120.0	2061.4	8417.3	8863.2	9720.3
3/3 % \$	-27.6	15.7	-0.1	13.9	3.1	3.8	26.7	-7.4	0.7	-0.2	-2.8	-0.7	5.3	9.7
% of World	5.4	5.7	5.9	5.6	5.2	5.0	5.4	5.0	5.0	4.9	4.7	4.9	4.9	5.2
Japan - \$M	5241.1	6761.0	1388.8	1833.5	2180.8	2299.5	7702.7	2052.4	2054.6	2184.1	2324.1	8615.3	8823.5	9146.2
3/3 % \$	-26.4	29.0	-33.3	32.0	18.9	5.4	13.9	-10.7	0.1	6.3	6.4	11.8	2.4	3.7
% of World	4.9	5.8	4.4	4.8	5.1	5.0	4.9	4.9	4.9	5.0	5.3	5.0	4.9	4.8
JPN - ¥100M	5702.2	7198.7	1471.2	2006.2	2399.4	2530.0	8406.8	2258.1	2260.6	2403.1	2557.0	9478.8	9707.9	10062.9
3/3 % ¥	-27.4	26.2	-32.4	36.4	19.6	5.4	16.8	-10.7	0.1	6.3	6.4	12.8	2.4	3.7
Asia Pac - \$M	66986.9	65382.6	19354.3	21958.5	24066.5	25915.4	91294.8	23790.3	23966.1	24768.1	25015.5	97540.0	101919.0	107018.0
3/3 % \$	-26.6	-2.4	27.4	13.5	9.6	7.7	39.6	-8.2	0.7	3.3	1.0	6.8	4.5	5.0
% of World	62.9	55.7	60.7	57.4	56.7	56.9	57.7	56.7	56.7	56.9	57.0	56.8	56.7	56.7
World - \$M	106440.0	117482.5	31905.9	38273.5	42411.2	45570.3	158160.9	41967.5	42296.4	43519.8	43898.2	171681.9	179785.0	188714.3
3/3 % \$	-32.6	10.4	14.0	20.0	10.8	7.4	34.6	-7.9	0.8	2.9	0.9	8.5	4.7	5.0
M1 - MOS DRAM	62474.7	64323.6	19149.2	23530.5	25709.0	26162.4	94551.1	24165.7	24426.1	25336.3	25889.7	99817.7	103993.0	110766.7
3/3 % \$	-37.1	3.0	23.3	22.9	9.3	1.8	47.0	-7.6	1.1	3.7	2.2	5.6	4.2	6.5
M2 - TOTAL MOS SR	303.6	320.8	89.0	82.6	81.7	78.8	332.0	79.8	81.3	80.5	75.5	317.1	307.9	302.3
3/3 % \$	-25.1	5.7	11.7	-7.1	-1.1	-3.5	3.5	1.3	1.8	-0.9	-6.2	-4.5	-2.9	-1.8
M6 - Other Memory	1098.1	937.7	264.8	277.9	283.5	278.5	1104.6	268.8	281.8	290.2	289.3	1130.1	1120.8	1115.9
3/3 % \$	-15.6	-14.6	7.9	5.0	2.0	-1.8	17.8	-3.5	4.8	3.0	-0.3	2.3	-0.8	-0.4
M7A - NOR Flash	1760.5	1762.0	547.2	672.1	846.1	820.4	2885.8	736.3	752.0	766.6	744.7	2999.6	2969.0	2959.9
3/3 % \$	-18.9	0.1	23.0	22.8	25.9	-3.0	63.8	-10.3	2.1	1.9	-2.9	3.9	-1.0	-0.3
M7B - NANDFlash	40180.0	49390.1	11750.4	13570.6	15313.3	18047.1	58681.5	16622.8	16668.5	16888.9	16701.1	66881.3	70882.3	73070.2
3/3 % \$	-25.9	22.9	2.4	15.5	12.8	17.9	18.8	-7.9	0.3	1.3	-1.1	14.0	6.0	3.1
M8 - ROM & EPROM	623.0	748.3	105.4	139.9	177									

MOS Memory Code	2019 Total	2020 Total	2021		2021 Total	2022		2022 Total	2023 Total	2024 Total				
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4			
Amer - \$M	28425.6	38646.5	9291.5	12351.1	13967.1	15075.7	50685.4	14013.8	14150.6	14447.6	14497.2	57109.2	60179.3	62829.7
3/3 % \$	-44.9	36.0	5.1	32.9	13.1	7.9	31.2	-7.0	1.0	2.1	0.3	12.7	5.4	4.4
% of World	26.7	32.9	29.1	32.3	32.9	33.1	32.0	33.4	33.5	33.2	33.0	33.3	33.5	33.3
Europe - \$M	5786.3	6692.5	1871.2	2130.4	2196.8	2279.6	8478.1	2110.9	2125.1	2120.0	2061.4	8417.3	8863.2	9720.3
3/3 % \$	-27.6	15.7	-0.1	13.9	3.1	3.8	26.7	-7.4	0.7	-0.2	-2.8	-0.7	5.3	9.7
% of World	5.4	5.7	5.9	5.6	5.2	5.0	5.4	5.0	5.0	4.9	4.7	4.9	4.9	5.2
Japan - \$M	5241.1	6761.0	1388.8	1833.5	2180.8	2299.5	7702.7	2052.4	2054.6	2184.1	2324.1	8615.3	8823.5	9146.2
3/3 % \$	-26.4	29.0	-33.3	32.0	18.9	5.4	13.9	-10.7	0.1	6.3	6.4	11.8	2.4	3.7
% of World	4.9	5.8	4.4	4.8	5.1	5.0	4.9	4.9	4.9	5.0	5.3	5.0	4.9	4.8
JPN - ¥100M	5702.2	7198.7	1471.2	2006.2	2399.4	2530.0	8406.8	2258.1	2260.6	2403.1	2557.0	9478.8	9707.9	10062.9
3/3 % ¥	-27.4	26.2	-32.4	36.4	19.6	5.4	16.8	-10.7	0.1	6.3	6.4	12.8	2.4	3.7
Asia Pac - \$M	66986.9	65382.6	19354.3	21958.5	24066.5	25915.4	91294.8	23790.3	23966.1	24768.1	25015.5	97540.0	101919.0	107018.0
3/3 % \$	-26.6	-2.4	27.4	13.5	9.6	7.7	39.6	-8.2	0.7	3.3	1.0	6.8	4.5	5.0
% of World	62.9	55.7	60.7	57.4	56.7	56.9	57.7	56.7	56.7	56.9	57.0	56.8	56.7	56.7
World - \$M	106440.0	117482.5	31905.9	38273.5	42411.2	45570.3	158160.9	41967.5	42296.4	43519.8	43898.2	171681.9	179785.0	188714.3
3/3 % \$	-32.6	10.4	14.0	20.0	10.8	7.4	34.6	-7.9	0.8	2.9	0.9	8.5	4.7	5.0
M1 - MOS DRAM	62474.7	64323.6	19149.2	23530.5	25709.0	26162.4	94551.1	24165.7	24426.1	25336.3	25889.7	99817.7	103993.0	110766.7
3/3 % \$	-37.1	3.0	23.3	22.9	9.3	1.8	47.0	-7.6	1.1	3.7	2.2	5.6	4.2	6.5
M2 - TOTAL MOS SR	303.6	320.8	89.0	82.6	81.7	78.8	332.0	79.8	81.3	80.5	75.5	317.1	307.9	302.3
3/3 % \$	-25.1	5.7	11.7	-7.1	-1.1	-3.5	3.5	1.3	1.8	-0.9	-6.2	-4.5	-2.9	-1.8
M6 - Other Memory	1098.1	937.7	264.8	277.9	283.5	278.5	1104.6	268.8	281.8	290.2	289.3	1130.1	1120.8	1115.9
3/3 % \$	-15.6	-14.6	7.9	5.0	2.0	-1.8	17.8	-3.5	4.8	3.0	-0.3	2.3	-0.8	-0.4
M7A - NOR Flash	1760.5	1762.0	547.2	672.1	846.1	820.4	2885.8	736.3	752.0	766.6	744.7	2999.6	2969.0	2959.9
3/3 % \$	-18.9	0.1	23.0	22.8	25.9	-3.0	63.8	-10.3	2.1	1.9	-2.9	3.9	-1.0	-0.3
M7B - NANDFlash	40180.0	49390.1	11750.4	13570.6	15313.3	18047.1	58681.5	16622.8	16668.5	16888.9	16701.1	66881.3	70882.3	73070.2
3/3 % \$	-25.9	22.9	2.4	15.5	12.8	17.9	18.8	-7.9	0.3	1.3	-1.1	14.0	6.0	3.1
M8 - ROM & EPROM	623.0	748.3	105.4	139.9	177									

M1 - MOS DRAM

WSTS Semiconductor Forecast

M1 - MOS DRAM

[illegible]

[illegible]

NOR Flash

2021	
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22	2023	2024
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[illegible]

[illegible]

ROM & EPROM	
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2021	
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2022	2023	2024
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[illegible]

M6 - Other Memory

WSTS Semiconductor Forecast

M6 - Other Memory

[illegible]

[illegible]

Tot Semicon
Code T99

	2021		
Q4	Total	Q1	Q2

2022	2023	2024
Total	Total	Total

[illegible]

[illegible]