

SEMICONDUCTOR UNIVERSE PRICES

Closing Prices as of 12/31/20

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	1Q	2Q	3Q	4Q	Year
Avg price chng %:	-18.2%	38.4%	8.1%	37.2%	61.0%
Positive:	7	53	32	48	46
Negative:	51	3	21	5	7
No chng:	0	0	0	0	0
Total Co's:	58	56	53	53	53

Index	Close	Change	%	1Q	2Q	3Q	4Q	Year
SOX	2,795.50	11.73	0.4%	-18.3%	32.2%	12.4%	24.6%	51.1%
SMH	218.42	0.57	0.3%	-17.2%	30.4%	14.0%	25.4%	54.5%
NASDAQ	12,888.28	18.28	0.1%	-14.2%	30.6%	11.0%	15.4%	43.6%
SP500	3,756.07	24.03	0.6%	-20.0%	20.0%	8.5%	11.7%	16.3%
DJIA	30,606.48	196.92	0.6%	-23.2%	17.8%	7.6%	10.2%	7.2%

Average P/E: 226.0
Average P/S: 7.06
Average P/B: 7.53

* = SOX

Ticker	Close	Chng	%	52-week Range	1Q	2Q	3Q	4Q	Year	Day	Volume		Diluted Shs (mil)	Cap (\$mil)	Trailing 12-Month		
											Avg	%			P/E	P/S	P/B
* ADI	147.73	1.55	1.1%	79.08 - 147.83	-24.6%	36.8%	-4.8%	26.5%	24.3%	1,553,439	2,720,000	-42.9%	372.0	54,956	31.7	10.0	4.7
AMBA	91.82	-0.66	-0.7%	36.02 - 96.80	-19.8%	-5.7%	13.9%	76.0%	51.6%	308,942	617,045	-49.9%	35.4	3,253	164.0	14.2	7.1
* AMD	91.71	-0.58	-0.6%	36.75 - 97.98	-0.8%	15.7%	55.8%	11.9%	100.0%	24,620,707	45,677,000	-46.1%	1,230.0	112,803	84.1	13.0	29.2
AOSL	23.64	0.02	0.1%	5.82 - 29.20	-52.9%	69.7%	17.8%	84.4%	73.6%	106,957	241,343	-55.7%	25.9	612	26.6	1.3	1.8
* AVGO	437.85	3.02	0.7%	155.67 - 438.50	-25.0%	33.1%	15.4%	20.2%	38.6%	973,840	1,624,000	-40.0%	451.0	197,470	20.7	8.5	8.4
CEVA	45.50	1.58	3.6%	20.45 - 46.50	-7.5%	50.1%	5.2%	15.6%	68.8%	286,969	126,675	126.5%	23.0	1,048	60.7	10.6	4.2
CRUS	82.20	0.25	0.3%	47.04 - 91.63	-20.4%	-5.9%	9.2%	21.9%	-0.3%	240,558	482,185	-50.1%	60.1	4,943	21.2	4.0	3.8
DIOD	70.50	0.76	1.1%	31.51 - 73.22	-27.9%	24.8%	11.3%	24.9%	25.1%	122,899	252,411	-51.3%	52.6	3,706	28.7	3.1	3.2
DSPG	16.59	0.32	2.0%	10.26 - 18.77	-14.9%	18.5%	-17.0%	25.9%	5.4%	65,047	127,454	-49.0%	25.1	417	127.6	3.7	2.7
GSIT	7.40	0.01	0.1%	4.75 - 8.74	-1.8%	3.2%	-21.4%	31.2%	4.4%	36,818	61,585	-40.2%	23.6	175	neg	5.5	2.1
HIMX	7.39	-0.77	-9.4%	1.73 - 8.30	3.0%	51.1%	-14.0%	107.6%	177.8%	5,356,783	1,802,000	197.3%	173.2	1,280	7390.0	1.8	3.0
IDCC	60.68	-0.16	-0.3%	31.04 - 67.06	-18.1%	26.9%	0.8%	6.3%	11.4%	106,079	142,753	-25.7%	31.1	1,884	49.3	5.3	2.4
INFN	10.48	-0.14	-1.3%	3.68 - 11.51	-33.2%	11.7%	4.1%	70.1%	32.0%	1,715,388	2,538,000	-32.4%	190.1	1,992	neg	1.4	6.0
* INTC	49.82	1.07	2.2%	43.61 - 69.29	-9.6%	10.6%	-13.5%	-3.8%	-16.8%	28,022,440	36,311,000	-22.8%	4,211.0	209,792	9.4	2.7	2.8
IPHI	160.47	0.13	0.1%	55.72 - 162.08	7.0%	48.4%	-4.5%	43.0%	116.8%	667,066	1,196,000	-44.2%	55.7	8,935	55.0	14.9	24.0
LSCC	45.82	0.50	1.1%	13.54 - 46.37	-6.9%	59.3%	2.0%	58.2%	139.4%	754,060	902,693	-16.5%	141.5	6,484	67.4	16.2	17.2
* MCHP	138.11	1.32	1.0%	53.15 - 145.34	-35.3%	55.3%	-2.4%	34.4%	31.9%	748,729	1,740,000	-57.0%	257.8	35,605	23.9	6.8	6.5
MOSY	2.44	-0.02	-0.8%	0.78 - 4.65	-47.9%	98.9%	-20.8%	68.3%	38.2%	212,084	278,822	-23.9%	3.3	8	neg	1.2	1.8
* MPWR	366.23	5.50	1.5%	130.12 - 367.05	-5.9%	41.5%	18.0%	31.0%	105.7%	273,525	467,722	-41.5%	47.0	17,198	76.9	22.1	18.8
MRAM	4.60	0.00	0.0%	1.75 - 9.01	-50.2%	167.9%	-19.2%	-18.9%	-12.5%	186,741	221,761	-15.8%	18.8	86	neg	2.1	4.2
* MRVL	47.54	0.04	0.1%	16.45 - 48.42	-14.8%	54.9%	13.2%	19.7%	79.0%	3,955,078	9,177,000	-56.9%	678.3	32,246	65.1	11.5	3.8
MTSI	55.04	0.20	0.4%	15.03 - 55.65	-28.8%	81.5%	-1.0%	61.8%	106.9%	385,422	422,520	-8.8%	68.6	3,774	94.9	7.6	13.8
* MU	75.18	3.26	4.5%	31.13 - 75.68	-21.8%	22.5%	-8.9%	60.1%	39.8%	22,962,270	15,981,000	43.7%	1,142.0	85,856	26.6	4.0	2.2
MX	13.52	0.07	0.5%	6.30 - 16.06	-4.8%	-6.8%	33.0%	-1.3%	16.5%	197,105	355,951	-44.6%	46.6	630	18.3	1.1	2.3
* MXIM	88.65	1.13	1.3%	41.93 - 88.79	-21.0%	24.7%	11.5%	31.1%	44.1%	1,319,896	2,222,000	-40.6%	269.5	23,891	35.9	10.5	14.0
MXL	38.19	-0.22	-0.6%	7.79 - 38.61	-45.0%	83.9%	8.3%	64.3%	80.0%	337,116	508,240	-33.7%	73.8	2,818	69.4	10.2	7.0
NLST	0.60	0.01	2.2%	0.10 - 0.90	-1.7%	93.2%	15.6%	-8.5%	101.0%	538,823	481,995	11.8%	175.5	106	neg	2.6	neg
NPTN	9.09	0.05	0.6%	4.65 - 10.34	-17.8%	22.5%	-31.4%	49.3%	3.1%	408,830	676,922	-39.6%	54.4	494	16.8	1.2	2.7
* NVDA	522.20	-3.63	-0.7%	180.68 - 589.07	12.0%	44.1%	42.5%	-3.5%	121.9%	4,664,931	7,928,000	-41.2%	626.0	326,897	68.3	25.0	23.5
* NXPI	159.01	-0.38	-0.2%	58.41 - 167.27	-34.8%	37.5%	9.4%	27.4%	24.9%	829,398	1,998,000	-58.5%	279.5	44,443	neg	5.3	5.0
OIIM	9.18	0.13	1.4%	0.98 - 9.82	-27.3%	32.8%	108.2%	159.3%	421.6%	834,179	573,670	45.4%	28.9	265	51.6	3.6	3.4
* ON	32.73	0.25	0.8%	8.17 - 32.93	-49.0%	59.3%	9.4%	50.9%	34.2%	3,972,492	6,934,000	-42.7%	418.3	13,691	41.4	2.6	4.0
PI	41.87	0.12	0.3%	11.47 - 45.00	-35.4%	64.4%	-4.1%	58.9%	61.9%	103,338	251,354	-58.9%	22.9	960	neg	6.7	8.8
POWI	81.86	0.84	1.0%	38.67 - 82.03	-10.7%	33.7%	-6.2%	47.8%	65.5%	126,547	333,200	-62.0%	60.9	4,985	53.9	11.0	6.4
PXLW	2.82	-0.07	-2.4%	1.95 - 5.23	-27.3%	13.3%	-36.5%	37.6%	-28.1%	247,419	546,880	-54.8%	40.8	115	neg	2.4	3.1
* QCOM	152.34	2.39	1.6%	58.00 - 161.07	-23.3%	34.8%	29.0%	29.5%	72.7%	4,753,639	8,093,000	-41.3%	1,148.0	174,886	36.4	8.1	28.8
* QRVO	166.27	-1.10	-0.7%	67.54 - 170.90	-30.6%	37.1%	16.7%	28.9%	43.1%	812,684	1,149,000	-29.3%	116.2	19,321	22.6	5.5	4.4
QUIK	3.79	0.05	1.3%	2.12 - 8.82	-52.7%	7.7%	1.6%	21.9%	-36.8%	89,543	77,272	15.9%	11.0	42	neg	4.6	2.9
RMBS	17.46	-0.07	-0.4%	9.01 - 18.54	-19.4%	36.9%	-9.9%	27.5%	26.8%	560,253	665,740	-15.8%	116.0	2,025	neg	4.8	2.1
* SIMO	48.15	1.15	2.4%	26.72 - 53.04	-27.7%	33.0%	-22.5%	27.4%	-5.0%	463,423	301,693	53.6%	35.1	1,688	14.5	3.1	2.8
SITM	111.93	3.31	3.0%	15.42 - 118.60	-14.6%	117.8%	77.2%	33.2%	338.9%	135,162	133,232	1.4%	15.4	1,720	neg	17.8	17.3
* SLAB	127.34	0.45	0.4%	65.09 - 128.88	-26.4%	17.4%	-2.4%	30.1%	9.8%	150,798	248,651	-39.4%	44.3	5,645	42.4	6.5	4.8
SMTC	72.09	0.10	0.1%	26.03 - 73.91	-29.1%	39.3%	1.4%	36.1%	36.3%	172,964	344,332	-49.8%	66.0	4,758	45.3	8.6	7.0
SQNS	6.04	0.05	0.8%	2.91 - 8.29	69.7%	20.6%	-2.8%	1.2%	101.3%	276,743	422,188	-34.5%	30.3	183	neg	4.1	neg
STM	37.12	-0.44	-1.2%	14.67 - 41.99	-20.6%	28.3%	12.0%	21.0%	37.9%	921,024	2,337,000	-60.6%	921.5	34,206	37.1	3.5	4.5
* SWKS	152.88	0.13	0.1%	67.90 - 158.61	-26.1%	43.1%	13.8%	5.1%	26.5%	925,044	1,898,000	-51.3%	168.6	25,776	25.0	7.7	6.2
TSEM	25.82	-0.14	-0.5%	12.13 - 27.28	-33.8%	19.9%	-4.6%	41.7%	7.3%	126,741	474,769	-73.3%	108.3	2,796	29.0	2.3	2.0
* TSM	109.04	0.14	0.1%	42.70 - 109.70	-17.7%	18.8%	42.8%	34.5%	87.7%	4,888,113	7,786,000	-37.2%	5,186.0	565,481	34.5	13.1	9.2
* TXN	164.13	1.43	0.9%	93.09 - 167.24	-22.1%	27.1%	12.5%	14.9%	27.9%	2,693,816	3,963,000	-32.0%	929.0	152,477	31.0	11.1	18.3
UMC	8.43	-0.23	-2.7%	2.10 - 9.40	-19.0%	21.7%	81.4%	76.0%	214.6%	3,407,566	4,729,000	-27.9%	2,458.8	20,728	27.4	3.6	2.7
VSH	20.71	0.03	0.1%	11.23 - 23.25	-32.3%	6.0%	2.0%	33.0%	-2.7%	812,647	861,650	-5.7%	145.2	3,007	26.9	1.2	2.0
* XLNX	141.77	-0.33	-0.2%	67.68 - 154.12	-20.3%	26.2%	5.9%	36.0%	45.0%	1,215,437	3,875,000	-68.6%	246.8	34,989	48.4	11.8	14.3
XPER	20.90	0.01	0.0%	9.01 - 21.27	-24.8%	6.1%	-22.2%	81.9%	13.0%	402,854	845,500	-52.4%	72.6	1,518	65.3	3.2	1.1