

SEMICONDUCTOR UNIVERSE PRICES

Closing Prices as of 12/30/16

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	1Q	2Q	3Q	4Q	Year
<b>Avg price chng %:</b>	2.5%	-1.0%	24.1%	6.2%	33.8%
<b>Positive:</b>	54.3%	47.1%	91.0%	64.2%	77.6%
<b>Negative:</b>	45.7%	52.9%	9.0%	35.8%	22.4%
<b>No chng:</b>	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Average P/E:</b>	40.11				
<b>Average P/S:</b>	4.06		<b>Total Companies:</b>	67	
<b>Average P/B:</b>	4.29				

Index	Close	Change	%	Days Range		1Q	2Q	3Q	4Q	YTD
				Low	High					
SOX	906.47	(14.73)	-1.6%	904.23	925.31	2.0%	2.2%	20.8%	8.5%	36.6%
SMH	71.64	(0.92)	-1.3%	71.52	73.20	3.4%	3.5%	21.9%	3.1%	34.5%
NASDAQ	5,383.12	(48.97)	-0.9%	5,371.89	5,441.90	-2.7%	-0.6%	9.7%	1.3%	7.5%
SP500	2,238.83	(10.43)	-0.5%	2,233.62	2,253.58	0.8%	1.9%	3.3%	3.3%	9.5%
DJIA	19,762.60	(57.18)	-0.3%	19,718.67	19,852.55	1.5%	1.4%	2.1%	7.9%	13.4%

\* = SOX

Ticker	Close	Chng	%	52-week				1Q	2Q	3Q	4Q	YTD	Day	Volume Average	%	% Change MACD		Diluted Shs (mil)	Cap (\$mil)	Trailing 12-Month		
				Low	High	Low %	High %									50-day	200-day			P/E	P/S	P/B
ADI	72.62	-0.96	-1.3%	47.24	74.87	53.7%	-3.0%	7.0%	-4.3%	13.8%	12.7%	31.3%	1,759,059	2,651,720	-33.7%	1.0%	13.2%	311.6	22,628	23.7	6.6	4.4
AMBA	54.13	-0.14	-0.3%	33.39	74.95	62.1%	-27.8%	-19.8%	13.7%	44.9%	-25.5%	-2.9%	815,633	975,620	-16.4%	-6.4%	-10.6%	34.6	1,873	20.6	6.4	4.4
AMCC	8.25	-0.20	-2.4%	4.93	9.05	67.3%	-8.8%	1.4%	-0.6%	8.3%	18.7%	29.5%	863,678	1,166,280	-25.9%	-1.1%	15.0%	87.0	718	neg	4.3	6.4
* AMD	11.34	-0.25	-2.2%	1.75	12.42	548.0%	-8.7%	-0.7%	80.4%	34.4%	64.1%	295.1%	44,095,368	47,856,300	-7.9%	17.1%	58.5%	815.0	9,242	neg	2.2	24.0
AOSL	21.27	-0.65	-3.0%	8.02	23.93	165.2%	-11.1%	28.9%	17.6%	55.9%	-2.1%	131.4%	123,826	158,109	-21.7%	-3.0%	10.5%	24.4	519	66.5	1.5	2.1
AVGO	176.77	-3.10	-1.7%	114.25	183.99	54.7%	-3.9%	6.4%	0.6%	11.0%	2.5%	21.8%	2,542,386	2,602,600	-2.3%	1.5%	4.7%	447.0	79,016	15.6	5.9	4.2
CAVM	62.44	-0.54	-0.9%	35.9	66.14	73.9%	-5.6%	-6.9%	-36.9%	50.8%	7.3%	-5.0%	456,480	1,016,600	-55.1%	4.5%	18.7%	70.0	4,371	50.0	9.1	5.2
CEVA	33.55	-0.30	-0.9%	17.11	36.81	96.1%	-8.9%	-3.7%	20.8%	29.1%	-4.3%	43.6%	75,586	121,152	-37.6%	4.3%	8.2%	22.2	743	42.5	11.0	3.6
CRUS	56.54	-1.47	-2.5%	25.09	60	125.4%	-5.8%	23.3%	6.5%	37.0%	6.4%	91.5%	1,063,030	1,062,060	0.1%	0.2%	12.1%	65.7	3,715	18.9	2.9	3.8
CY	11.44	-0.09	-0.8%	6.3	12.48	81.6%	-8.3%	-11.7%	21.8%	15.3%	-5.9%	16.6%	3,216,958	5,258,020	-38.8%	2.3%	3.1%	350.7	4,012	24	2.1	2.0
DIOD	25.67	-0.80	-3.0%	16.58	27.17	54.8%	-5.5%	-12.5%	-6.5%	13.6%	20.3%	11.7%	153,119	154,484	-0.9%	4.1%	22.5%	49.9	1,281	33.8	1.4	1.6
DSPG	13.05	0.05	0.4%	7.89	13.1	65.4%	-0.4%	-3.4%	16.3%	13.2%	8.7%	38.2%	58,576	76,061	-23.0%	8.4%	16.6%	23.6	307	45.0	2.3	2.1
EXAR	10.78	-0.24	-2.2%	4.82	11.09	123.7%	-2.8%	-6.2%	40.0%	15.7%	15.8%	75.9%	182,893	238,281	-23.2%	5.8%	18.6%	51.2	552	41.5	4.7	2.3
GIG	2.52	-0.01	-0.4%	1.63	3.42	55%	-26.3%	-11.2%	-27.4%	19.9%	7.2%	-17.1%	205,584	491,581	-58.2%	-5.2%	9.9%	69.4	175	12.6	3.3	1.6
GSIT	6.20	0.01	0.2%	3.33	6.34	86.2%	-2.2%	10.2%	1.7%	13.4%	31.1%	66.7%	13,961	53,655	-74.0%	9.8%	24.7%	21.1	131	2.5	1.5	
HIMX	6.04	-0.07	-1.1%	5.85	12	3.3%	-49.7%	37.1%	-26.5%	4.0%	-29.7%	-26.3%	2,749,590	3,486,409	-21.1%	8.0%	8.0%	172.4	1,041	16.9	1.3	2.2
IDCC	91.35	-0.40	-0.4%	41.01	98	122.8%	-6.8%	13.5%	0.1%	42.2%	15.3%	86.3%	205,806	371,467	-44.6%	8.8%	27.2%	35.0	3,193	15.6	6.3	5.3
IDTI	23.56	-0.68	-2.8%	16.22	26.26	45.3%	-10.3%	-22.4%	-1.5%	14.8%	2.0%	-10.6%	1,165,021	2,163,020	-46.1%	-3.1%	8.2%	139.8	3,294	16.7	4.4	4.6
INFN	8.49	-0.06	-0.7%	7.23	17.87	17.4%	-52.5%	-11.4%	-29.8%	-19.9%	-6.0%	-53.1%	1,361,686	1,890,130	-28.0%	-1.1%	-9.2%	145.0	1,231	12.9	1.3	1.5
* INTC	36.27	-0.39	-1.1%	27.68	38.36	31.0%	-5.5%	-6.1%	1.4%	15.1%	-3.9%	5.3%	17,467,984	20,535,600	-14.9%	1.6%	2.9%	4,877.0	176,889	13.5	3.1	2.8
INNV	12.79	-0.02	-0.2%	5.42	12.92	136.0%	-1.0%	-17.9%	-27.0%	21.0%	72.4%	25.0%	1,947,117	2,582,700	-24.6%	33.7%	67.2%	94.6	1,210	75.2	3.6	3.3
IOTS	1.85	0.00	0.0%	1.5	7.81	23.3%	-76.3%	-27.1%	-41.6%	-32.9%	-15.9%	-76.0%	35,969	86,014	-58.2%	-0.5%	-26.6%	15.0	28	neg	0.6	1.6
IPHI	44.62	-1.14	-2.5%	22.07	48.46	102.2%	-7.9%	23.4%	-3.9%	35.8%	2.6%	65.1%	479,808	848,136	-43.4%	-0.6%	12.0%	44.3	1,978	33.5	7.9	4.5
ISIL	22.30	-0.02	-0.1%	10.67	22.76	109.0%	-2.0%	4.8%	1.3%	62.0%	1.7%	74.8%	796,233	1,686,400	-52.8%	0.4%	16.4%	138.8	3,095	30.1	5.9	3.2
IXYS	11.90	-0.05	-0.4%	9.59	12.6	24.1%	-5.6%	-11.2%	-8.6%	17.6%	-1.2%	-5.8%	66,281	77,236	-14.2%	1.9%	5.2%	32.2	383	17.5	1.2	1.3
* LLTC	62.35	-0.22	-0.4%	37.33	64.42	67.0%	-3.2%	4.9%	4.4%	27.4%	5.2%	46.8%	1,083,078	2,271,970	-52.3%	0.6%	8.7%	245.7	15,319	29.0	10.5	8.5
LSCC	7.36	0.08	1.1%	4.02	7.99	83.1%	-7.9%	-12.2%	-5.8%	21.3%	13.4%	13.8%	1,157,640	2,325,980	-50.2%	1.8%	14.7%	122.2	899	2.2	2.2	3.3
MCHPX	64.15	-0.61	-0.9%	39.01	66.81	64.5%	-4.0%	3.6%	5.3%	22.4%	3.2%	37.8%	1,006,715	2,056,670	-51.1%	-1.0%	7.6%	234.0	15,011	20.6	5.3	6.0
MLNX	40.90	0.10	0.2%	37.54	55.8	9.0%	-26.7%	28.9%	-11.7%	-9.8%	-5.4%	-2.9%	291,640	576,445	-49.4%	-2.1%	-6.5%	49.7	2,031	12.1	2.5	2.1
MOSY	0.23	0.00	0.0%	0.22	1.25	4.6%	-81.6%	-40.4%	-37.7%	85.2%	-69.3%	-78.9%	3,178,449	273,859	1060.6%	-37.4%	-58.6%	66.1	15	neg	2.4	0.5
MPWR	81.93	-1.29	-1.6%	55.05	88.09	48.8%	-7.0%	-0.1%	7.4%	17.8%	1.8%	28.6%	250,734	323,627	-22.5%	-0.1%	7.5%	41.9	3,433	37.9	9.2	8.2
* MRVL	13.87	-0.24	-1.7%	7.4	15	87.4%	-7.5%	16.9%	-7.6%	39.2%	4.5%	57.3%	3,147,284	4,508,050	-30.2%	-2.1%	11.8%	531.8	7,376	27.2	3.0	1.8
MSCC	53.97	-1.32	-2.4%	28.91	57.32	86.7%	-5.8%	17.6%	-14.7%	28.5%	28.6%	65.6%	861,082	1,340,850	-35.8%	-1.6%	27.0%	115.4	6,228	17.8	3.8	3.6
MTSI	46.28	-0.89	-1.9%	29.56	53.8	56.6%	-14.0%	7.1%	-24.7%	28.4%	9.3%	13.2%	479,685	514,031	-6.7%	-2.7%	13.6%	55.3	2,559	24.2	4.7	5.5
* MU	21.92	-0.35	-1.6%	9.31	23.64	135.5%	-7.3%	-26.1%	31.4%	29.2%	23.3%	54.8%	20,268,891	27,030,900	-25.0%	9.0%	32.0%	1,091.0	23,915	121.8	1.8	1.9
MX	6.20	-0.20	-3.1%	3.1	9.17	100.0%	-32.4%	2.8%	4.0%	47.3%	-25.7%	17.2%	61,197	298,541	-79.5%	-0.5%	-10.2%	35.3	219	neg	0.3	neg
MXIM	38.57	-0.45	-1.2%	30.28	42.37	27.4%	-9.0%	-3.2%	-3.0%	11.9%	-3.4%	1.5%	1,659,023	1,892,710	-12.3%	-1.6%	-1.2%	288.6	11,131	22.7	5.1	5.2
MXL	21.80	-0.40	-1.8%	12.67	23.07	72.1%	-5.5%	25.6%	-2.8%	12.7%	7.5%	48.0%	630,379	810,600	-22.2%	1.7%	8.8%	67.8	1,479	11.6	3.7	4.4
NLST	1.02	0.01	1.0%	0.6	2.19	70.0%	-53.4%	55.7%	-14.6%	6.0%	-17.7%	15.9%	135,467	169,516	-20.1%	-2.9%	-20.8%	52.5	53	neg	3.2	17.8
NPTN	10.81	-0.03	-0.3%	7.61	18.51	42.1%	-41.6%	29.3%	-32.1%	71.5%	-33.8%	-0.5%	834,526	914,112	-8.7%	-12.2%	-18.6%	46.8	505	20.8	1.3	2.2
NVDA	106.74	-4.69	-4.2%	24.75	119.93	331.3%	-11.0%	8.1%	31.9%	45.8%	55.8%	223.8%	30,323,259	14,776,600	105.2%	10.6%	54.8%	653.0	69,701	43.6	11.4	13.1
NXPI	98.01	-0.09	-0.1%	61.61	107.54	59.1%	-8.9%	-3.8%	-3.4%	30.2%	-3.9%	16.3%	2,235,882	4,904,760	-54.4%	-0.2%	7.5%	344.4	33,755	24.3	3.9	3.2
OIIM	1.80	-0.10	-5.3%	1.21	2.15	48.8%	-16.3%	11.3%	-3.8%	11.9%	6.5%	27.7%	286,729	51,330	458.6%	-6.4%	2.8%	25.9	47	neg	0.9	0.6
ON	12.76	-0.21	-1.6%	6.97	13.32	83.1%	-4.2%	-2.1%	-8.0%	39.7%	3.6%	30.2%	5,866,331	6,231,180	-5.9%	5.4%	16.4%	424.0	5,410	22.4	1.6	3.1
PI	35.34	0.18	0.5%	16.36	41.91	116.0%	-15.7%	167.3%	-5.6%	152.4%	-5.6%	152.4%	318,371	613,539	-48.1%	8.8%	23.2%	20.2	714	neg	7.0	8.5
POWI	67.85	-0.85	-1.2%	39.53	70	71.6%	-3.1%	2.1%	0.6%	26.1%	7.6%	39.5%	136,749	160,417	-14.8%	0.8%	12.6%	29.6	2,010	28.3	5.4	4.3
PQLW	2.80	0.06	2.2%	1.22	3.49	129.5%	-19.8%	-8.0%	-16.0%	51.6%	0.4%	17.6%	227,608	169,736	34.1%	-2.5%	8.0%	28.3	79	neg	1.6	4.6
QCOM	65.20	-0.84	-1.3%	42.24	71.62	54.4%	-9.0%	2.3%	4.8%	27.9%	-4.8%	30.4%	5,941,909	9,573,120	-37.9%	-2.9%	3.5%	1,491.0	97,213	14.7	4.1	3.1
QRVO	52.73	-0.88	-1.6%	33.3	64.8	58.4%	-18.6%	-1.0%	9.6%	0.9%	-5.4%	3.6%</										

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<b>Positive:</b>	54.3%	47.1%	91.0%	64.2%	77.6%
<b>Negative:</b>	45.7%	52.9%	9.0%	35.8%	22.4%
<b>No chng:</b>	0.0%	0.0%	0.0%	0.0%	0.0%
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				Low	High	Low %	High %							50-day	200-day		P/E	P/S			P/B		
SLAB	65.00	-1.15	-1.7%	36.56	68.95	77.8%	-5.7%	-7.4%	8.4%	20.6%	10.5%	33.9%	221,931	243,191	-8.7%	-1.5%	13.0%	42.3	2,750	24.4	4.1	3.5	
SMI	7.62	0.06	0.8%	3.84	7.74	98.4%	-1.6%	-11.9%	-9.0%	37.5%	36.8%	50.9%	1,101,835	166,606	561.3%	14.4%	38.5%	1,005.4	7,661	21.8	2.8	1.9	
SMTC	31.55	-0.50	-1.6%	15.7	33.25	101.0%	-5.1%	16.2%	8.5%	16.2%	13.8%	66.8%	457,119	500,675	-8.7%	4.6%	18.7%	66.2	2,089	26.5	4.0	3.6	
SQNS	1.87	0.05	2.7%	1.53	3	22.2%	-37.7%	30.1%	-23.9%	-14.5%	5.6%	-10.5%	238,456	141,558	68.5%	0.5%	-1.2%	75.0	140	neg	3.3	10.5	
* STM	11.35	0.13	1.2%	5.11	11.45	122.1%	-0.9%	-16.2%	5.6%	38.4%	39.3%	70.4%	2,239,556	2,781,510	-19.5%	10.1%	40.5%	886.7	10,064	87.3	1.5	2.2	
SWKS	74.66	-1.90	-2.5%	54.5	82.28	37.0%	-9.3%	1.4%	-18.8%	20.3%	-1.9%	-2.8%	1,844,970	2,240,250	-17.6%	-2.7%	3.1%	188.8	14,096	13.4	4.3	4.0	
TSEM	19.03	-0.15	-0.8%	10.36	20.04	83.7%	-5.0%	-13.8%	2.5%	22.2%	25.4%	35.3%	455,451	711,167	-36.0%	2.9%	22.9%	107.1	2,038	13.1	1.8	3.2	
* TSM	28.75	-0.38	-1.3%	20.45	31.62	40.6%	-9.1%	15.2%	0.1%	16.6%	-6.0%	26.4%	4,862,758	6,119,520	-20.5%	-2.5%	-0.9%	5,186.0	149,098	15.7	5.4	3.6	
TSRA	44.20	-0.60	-1.3%	26.21	45.58	68.6%	-3.0%	3.3%	-1.2%	25.5%	15.0%	47.3%	318,452	375,889	-15.3%	5.5%	22.5%	50.3	2,225	19.9	8.9	4.4	
* TXN	72.97	-1.18	-1.6%	46.73	75.25	56.2%	-3.0%	4.8%	9.1%	12.0%	4.0%	33.1%	4,311,767	5,164,160	-16.5%	0.2%	5.8%	1,017.0	74,210	23.8	5.6	7.2	
UMC	1.75	0.00	0.0%	1.64	2.14	6.7%	-18.2%	10.6%	-4.3%	-7.0%	-5.4%	-6.9%	2,078,721	844,930	146.0%	-3.1%	-6.9%	2,441.6	4,273	15.6	1.0	0.6	
VSH	16.20	-0.40	-2.4%	9.96	16.75	62.7%	-3.3%	1.3%	1.5%	13.7%	15.0%	34.4%	703,657	1,051,640	-33.1%	3.8%	15.4%	149.9	2,428	20.0	1.1	1.4	
* XLNX	60.37	-0.37	-0.6%	40.44	62.24	49.3%	-3.0%	1.0%	-2.7%	17.8%	11.1%	28.5%	2,112,510	2,848,340	-25.8%	7.7%	16.2%	270.4	16,324	26.8	7.1	6.2	