

# **Maxim Integrated (MXIM)**

\$62.43 (As of 01/02/20)

Price Target (6-12 Months): \$66.00

Long Term: 6-12 Months	Zacks Recommendation:	Neutral
	(Since: 09/30/19)	
	Prior Recommendation: Underp	perform
Short Term: 1-3 Months	Zacks Rank: (1-5)	3-Hold
	Zacks Style Scores:	VGM:D
	Value: D Growth: D	Momentum: B

## Summary

Maxim is benefitting from strong momentum across driver assistance in electric vehicle. Further, growing demand for 100G laser drivers and modules is aiding its performance in the communications and data center market. Additionally, the company's well-performing peripherals, wearables and tablet businesses are positives. Also, robust battery management systems are likely to contribute well to Maxim's top-line. Further, the company remains optimistic about its flexible manufacturing strategy and diversified product portfolio. However, soft demand environment is impacting its endmarket performance negatively. Further, weakness in the smartphone market and slowdown in auto production are headwinds. Also, Huawei ban is a major concern. Notably, the stock has underperformed the industry it belongs to over a year.

# **Data Overview**

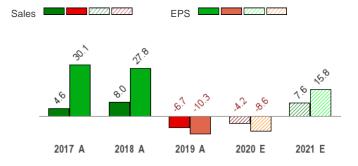
52 Week High-Low	\$65.73 - \$48.05
20 Day Average Volume (sh)	1,565,332
Market Cap	\$16.9 B
YTD Price Change	1.5%
Beta	1.41
Dividend / Div Yld	\$1.92 / 3.1%
Industry	Semiconductor - Analog and <u>Mixed</u>
Zacks Industry Rank	Bottom 26% (188 out of 253)

Last EPS Surprise	6.1%
Last Sales Surprise	0.5%
EPS F1 Est- 4 week change	-0.4%
Expected Report Date	02/04/2020
Earnings ESP	0.0%
P/E TTM	28.3
P/E F1	28.1
PEG F1	2.4
P/S TTM	7.7

# Price, Consensus & Surprise



# Sales and EPS Growth Rates (Y/Y %)



# Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	587 E	585 E	597 E	619 E	2,386 E
2020	533 A	545 E	556 E	583 E	2,217 E
2019	639 A	577 A	542 A	557 A	2,314 A

### **EPS Estimates**

	Q1	Q2	Q3	Q4	Annual*
2021	\$0.63 E	\$0.62 E	\$0.66 E	\$0.71 E	\$2.57 E
2020	\$0.52 A	\$0.53 E	\$0.56 E	\$0.62 E	\$2.22 E
2019	\$0.75 A	\$0.60 A	\$0.52 A	\$0.57 A	\$2.43 A

**7.7** \*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 01/02/2020. The reports text is as of 01/03/2020.

### Overview

San Jose, California based Maxim Integrated Products, Inc. is an original equipment manufacturer (OEM) of semiconductor analog and mixed signal integrated circuits (ICs).

The company has a broad product portfolio that includes analog-todigital converters, amplifiers and comparators, communications devices, data converters and management components, sensors and wireless products.

Maxim's 70+ product lines are primarily sold in the consumer, computing, industrial, automotive (formerly part of the Industrial segment) and communications markets which are the five primary end markets.

Its products have very extensive application in consumer goods like cordless phones, digital cameras and PDAs; data processing; industrial products; instrumentation products; medical instruments; and various communications gear and networking equipment.

The company's products are sold in major five end-markets namely automotive, communications and data center, computing, consumer and industrial markets.

A significant percentage of the wafer manufacturing continues to be carried out at Maxim's three fabrication facilities, although increasing

amounts are being outsourced to partner foundries — Epson, Powerchip and Maxchip.



800M

600M

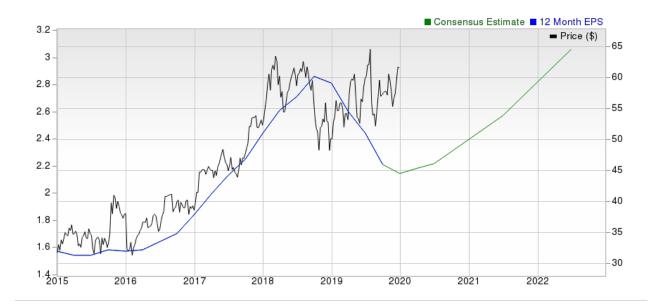
400M

200M

The company has operations in the Asia/Pacific region, the U.S. and Europe. In fiscal 2019, the major part of total revenues came from China which accounted for 35% and the rest of Asia contributed 33%. The Europe and U.S. generated 18.5% and 11%, respectively. The rest of the world generated 2.5%.

Products are distributed in the U.S. and Canada through a direct sales force and support system. Products are sold through direct sales, applications organization and unaffiliated distributors. Distributors generated 46% of sales in fiscal 2019.

Avnet was the primary global distributor, accounting for around 22% of the company's revenues. Samsung, the only customer generated 10% of revenues alone.



## **Reasons To Buy:**

▲ Maxim generates its revenues from the **analog market**, which comes with several inherent advantages. Analog products do not require leading edge manufacturing facilities, since the capacity can be used for longer periods of time than digital products. This reduces capital equipment costs, as large upfront costs are avoided, depreciation is less and profits are more stable when utilization rates drop lower. Being more differentiated, analog products are also less likely to become commoditized. The relatively longer life cycles ensure that older analog products can keep contributing to revenues for longer periods of time and generate higher margins (due to pricing power) than corresponding digital products. Moreover, Maxim's shifting to advanced node process technology development bodes well for its margin expansion.

Maxim has a solid portfolio that generates steady design wins, a strong core business that is highly profitable and well-diversified, and returns cash to investors at regular intervals.

- ▲ Multiple opportunities continue to unfold in the **industrial market**. Industrial automation, building controls, electrical meters, security devices and automobiles are not just the highest consumers of semiconductors, but also the areas with the greatest promise of growth. The company expects its factory automation product will continue to perform well in the long haul. Moreover, increasing deployment of Industry 4.0 control systems in factories across the world remains a key catalyst. Another segment that is currently showing promise is medical sector and is likely to aid Maxim's business growth. Utilities are moving toward greater automation and efficiencies in operation, another secular growth driver. Maxim's higher-integration smaller-footprint products have been popular in these markets. Maxim has also enhanced its capabilities in the industrial market through bolt-on acquisitions that have strengthened its position and offered more comprehensive solutions. Maxim's **consumer revenues** have picked up gradually due to diversification across customers, products and platforms. Revenues in this market have been improving due to diversification across a variety of markets. Management stated that new wins in the fast growing markets like fitness wearables, tablets and smartphones will continue to drive consumer revenues in the near term.
- 🛦 Maxim's automotive business carries strategic importance, high growth opportunities. The increase in customer wins is particularly encouraging because it opens up possibilities of further design wins as new car models are prepped for the market. Infotainment, safety and driver assistance content, known as ADAS are long term drivers of the automotive business. The company's expertise in Automotive Safety Integrity Levels (ASIL) remains the key catalyst. Moreover, the company's ASIL compliant battery management system remains a market differentiator and will continue to sustain Maxim's momentum in the market. China is expected to bring further opportunities, as Chinese infrastructure spending boosts demand for its factory automation products. Recently, the company introduced a high-end version of BMS product for electric buses which has already gained momentum in China. Moreover, the company's ASIL compliant battery management system remains a market differentiator and will continue to sustain Maxim's momentum in the market. Management expects battery management systems to be a meaningful driver of revenue growth going forward. Additionally, there are long term opportunities the communications and data center market.Longer-term trends like the competitive nature of the communications service provider market that drive players to deploy more efficient and capable infrastructure are intact. It is now apparent that IP-based networks are better than traditional voice-based networks in this respect; therefore, there will be long-term demand for convergence technologies that could be beneficial for companies like Maxim. The company is focusing on communications interface circuits to drive growth in this segment. Maxim is also seeing growing customer wins in the cloud and data center market for its highly integrated, high-current power management solutions and 40-gig and 100-gig optical products. It is also poised to take advantage of a leading cloud computing customer's demand for smaller and more power-efficient solutions to reduce overall cost of ownership. Cloud and datacenters will likely be significant growth drivers for Maxim in the communications and data center market.

### **Reasons To Sell:**

- Revenue growth is usually an area of concern for analog companies, since products take longer to design and stay relevant longer. Maxim is no different from others in this respect. While the business model supports stronger margins, the longer lead times for customized devices require a relatively longer sales cycle than digital products.
- ▼ Customer concentration is a big problem for Maxim. Being designed into Samsung devices means that the company is likely to see very strong growth rates when Samsung does well that skew its overall results. A typical analog company, especially one that has diversified end markets, usually sees moderate and steady growth rates if market conditions permit. However, Samsung is changing all that by generating 10% of the company's total revenues

This problem with Maxim is that it is exacerbated by the concentration of its mobility revenue at Samsung, which could only be mitigated once its diversification strategy takes off.

alone in fiscal 2019. No other customer has contributed this much. As a result, Samsung's projections and announcements, especially those related to its high-end models where Maxim has greater exposure, have a significant impact on it. On the positive side, Samsung has many new products scheduled to be launched, so there is a lot of opportunity for Maxim, if it is able to capitalize on it.

▼ Maxim derives a major portion of its revenues from outside the U.S. Thus, an economic condition which impacts foreign currency exchange rates does result in transaction exposure, which leads to profit fluctuation. Exposure to **foreign currency translation** impacts and poses a threat to its growth.

# **Last Earnings Report**

### Maxim Q1 Earnings & Revenues Beat Estimates

Maxim Integrated Products reported first-quarter fiscal 2020 adjusted earnings of 52 cents per share, which surpassed the Zacks Consensus Estimate by 3 cents. Notably, the figure declined 30.7% year over year and 8.8% on a sequential basis.

Revenues of \$533.04 million surpassed the Zacks Consensus Estimate of \$531 million and came within the company's guided range of \$510 million to \$550 million. However, the figure declined 16.5% and 4.2% from the year-ago quarter and previous quarter, respectively.

Quarter Ending	09/2019
Report Date	Oct 29, 2019
Sales Surprise	0.45%
EPS Surprise	6.12%
Quarterly EPS	0.52
Annual EPS (TTM)	2.21

This can be attributed to sluggish demand environment, which impacted the company's endmarket performance in the industrial, automotive, consumer and, communications and data center markets.

#### **End-Market in Detail**

**Industrial:** The company generated 30% of total revenues from this market during the reported quarter. Revenues in this market declined 21% from the prior-year quarter owing to weak market and demand conditions.

**Automotive:** This market accounted for 27% of the company's revenues during the fiscal first quarter. Further, revenues were down 4% on a year-over-year basis, which was primarily owing to slowdown in the global auto production.

Nevertheless, Maxim witnessed continued momentum across driver assistance in electric vehicle content in the reported quarter.

**Consumer:** Maxim generated 24% of revenues from this market. Revenues in this market declined 19% year over year, thanks to sluggishness in the smartphone market. Notably, smartphones accounted for 35% of the company's consumer business during the reported quarter.

However, the company witnessed lower magnitude of decline in Samsung smartphone revenues than expected. Further, improved performance of the company's tablets, wearables and peripheral businesses remained positive.

Communications and Data Center: Revenues from this market which now includes computing accounted for 19% of the total revenues, declining 25% from the year-ago quarter. This was due to sluggishness in communications infrastructure space.

Nevertheless, the company witnessed improved demand for its 100G laser driver products required for data center applications.

### **Operating Details**

Non-GAAP gross margin was 64.8%, contracting 350 bps from the year-ago quarter.

Non-GAAP operating expenses of \$185.1 million decreased 4.7% year over year. However, as a percentage of revenues, the figure expanded 430 bps from the prior-year quarter.

Per the company, operating margin came in 29.3%, down from 36.7% in the year-ago quarter.

# **Balance Sheet & Cash Flow**

As of Sep 28, 2019, cash, cash equivalents and short-term investments were \$1.8 billion, compared with \$1.9 billion as Jun 29, 2019.

Further, long-term debt was \$992.9 million at the end of fiscal first quarter compared with \$992.6 million at the end of fiscal fourth quarter.

During the quarter under review, cash flow from operations was \$141.3 million, down from \$237.5 million in the previous quarter. The company utilized \$21 million for capital expenditure during the fiscal first quarter.

Further, trailing 12-month free cash flow was \$725 million, down from \$793 million in the fiscal fourth quarter.

Further, Maxim spent \$94 million in repurchasing shares and made dividend payment of \$130 million (48 cents per share).

### Guidance

For second-quarter fiscal 2020, earnings per share are expected in the range of 49-57 cents on an adjusted basis.

Further, Maxim expects revenues in the range of \$525 million to \$565 million.

Non-GAAP gross margin is expected within the range of 64-66%.

Management expects industrial market to exhibit seasonal sequential growth in the fiscal second quarter. Moreover, the company is likely to experience stabilization in the run rate of bookings and lead times.

Further, automotive market is expected to improve from the fiscal first quarter backed by growth in driver assistance and battery management system content. Further, Maxim's infotainment business is expected to perform well.

Maxim expects to experience sequential growth in revenues from communications and data center market. Further, the company is likely to witness solid demand for 25G optical products, which are essential for 5G base station applications. It also anticipates growth in 100G laser drivers shipments that are required in data centers.

	mer electronics.		

### **Recent News**

On **Nov 20, 2019**, Maxim rolled out a solid-state blood-pressure monitoring solution which is comprised of a complete integrated optical sensor module, a microcontroller sensor hub and a sensing algorithm. The solution allows users to measure blood pressure by placing their finger on the device in which it is embedded.

On **Nov 1, 2019**, Maxim unveiled MAX6078A voltage reference IC, the MAX16155 nanoPower supervisor and the MAX16160 voltage monitor which expanded its analog product portfolio.

On **Aug 21, 2019**, Maxim unveiled two battery protectors namely MAX17301 and MAX17311 which are capable of providing highest level of safety in the most accurate, lowest quiescent current fuel gauge ICs. The protectors also allow fine tuning of voltage and current thresholds based on various temperature zones.

### **Valuation**

Maxim Integrated Products shares are up 3.4% in the six-month period and 24.7% over the trailing 12-month period. Stocks in the Zacks sub-industry and the Zacks Computer & Technology sector are up 15.8% and 13.4% in the six-month period, respectively. Over the past year, the Zacks sub-industry and the sector are up 50.4% and 35.2%, respectively.

The S&P 500 index is up 8.3% in the six-month period and 26.3% in the past year.

The stock is currently trading at 26.06X forward 12-month earnings, which compares to 23.32X for the Zacks sub-industry, 23.44X for the Zacks sector and 19.24X for the S&P 500 index.

Over the past five years, the stock has traded as high as 26.1X and as low as 15.27X, with a 5-year median of 19.77X. Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$66 price target reflects 27.62X forward 12-month earnings.

The table below shows summary valuation data for MXIM

Valuation Multiples - MXIM						
		Stock	Sub-Industry	Sector	S&P 500	
	Current	26.06	23.32	23.44	19.24	
P/E F 12M	5-Year High	26.1	23.32	23.44	19.34	
	5-Year Low	15.27	13.42	16.86	15.17	
	5-Year Median	19.77	18.09	19.11	17.44	
	Current	7.34	4.74	3.62	3.49	
P/S F12M	5-Year High	7.48	4.74	3.62	3.49	
	5-Year Low	3.52	2.81	2.29	2.54	
	5-Year Median	5.42	3.68	2.99	3	
	Current	25.96	12.02	12.1	12.01	
EV/EBITDA TTM	5-Year High	26.04	14.57	12.59	12.86	
	5-Year Low	9.27	8.34	7.68	8.49	
	5-Year Median	12.66	11.77	10.5	10.66	

As of 01/02/2020

# Industry Analysis Zacks Industry Rank: Bottom 26% (188 out of 253)

#### ■ Industry Price 600 - Industry -65 200 – 2015

# **Top Peers**

Cirrus Logic, Inc. (CRUS)	Neutral
Monolithic Power Systems, Inc. (MPWR)	Neutral
MaxLinear, Inc (MXL)	Neutral
Silicon Laboratories, Inc. (SLAB)	Neutral
Semtech Corporation (SMTC)	Neutral
Skyworks Solutions, Inc. (SWKS)	Neutral
Texas Instruments Incorporated (TXN)	Neutral
Analog Devices, Inc. (ADI)	Underperform

Industry Comparison Inc	SON Industry: Semiconductor - Analog And Mixed			Industry Peers			
	MXIM Neutral	X Industry	S&P 500	SLAB Neutral	SMTC Neutral	TXN Neutra	
VGM Score	D	-	-	D	F	C	
Market Cap	16.89 B	6.48 B	23.76 B	5.14 B	3.57 B	121.12	
# of Analysts	10	9	13	5	7	1	
Dividend Yield	3.08%	0.00%	1.78%	0.00%	0.00%	2.78%	
Value Score	D	-	-	D	D	D	
Cash/Price	0.11	0.09	0.04	0.14	0.08	0.0	
EV/EBITDA	18.60	19.51	13.97	29.17	28.29	15.6	
PEG Ratio	2.39	2.03	2.02	2.12	3.03	2.5	
Price/Book (P/B)	9.48	4.78	3.38	4.74	5.18	13.4	
Price/Cash Flow (P/CF)	21.66	18.94	13.70	25.70	25.10	19.56	
P/E (F1)	27.86	31.08	18.83	33.99	36.36	26.0	
Price/Sales (P/S)	7.65	5.48	2.68	6.16	6.26	8.2	
Earnings Yield	3.56%	3.25%	5.30%	2.94%	2.75%	3.849	
Debt/Equity	0.56	0.55	0.72	0.34	0.26	0.5	
Cash Flow (\$/share)	2.88	2.86	6.94	4.61	2.15	6.6	
Growth Score	D	-	-	С	D	В	
Hist. EPS Growth (3-5 yrs)	15.13%	15.13%	10.56%	19.09%	11.83%	21.029	
Proj. EPS Growth (F1/F0)	-8.81%	11.70%	7.41%	6.41%	-23.24%	-3.02%	
Curr. Cash Flow Growth	-14.31%	-6.04%	14.83%	28.27%	-2.21%	20.889	
Hist. Cash Flow Growth (3-5 yrs)	2.00%	25.11%	9.00%	17.31%	-13.66%	13.94%	
Current Ratio	7.08	3.49	1.23	6.78	4.35	4.3	
Debt/Capital	35.79%	35.79%	42.92%	25.18%	20.63%	37.119	
Net Margin	34.87%	5.11%	11.08%	2.96%	8.71%	35.109	
Return on Equity	34.55%	12.94%	17.10%	9.33%	10.64%	58.00%	
Sales/Assets	0.58	0.49	0.55	0.51	0.54	0.8	
Proj. Sales Growth (F1/F0)	-4.20%	2.46%	4.20%	9.42%	-13.15%	-2.13%	
Momentum Score	В	-	-	D	F	В	
Daily Price Chg	1.50%	1.64%	0.33%	2.10%	1.81%	1.00%	
1 Week Price Chg	-0.28%	0.78%	0.13%	0.80%	1.15%	-0.29%	
4 Week Price Chg	10.03%	10.54%	3.31%	10.17%	17.19%	7.31%	
12 Week Price Chg	9.70%	15.38%	9.70%	9.93%	10.41%	1.449	
52 Week Price Chg	30.20%	61.19%	30.28%	59.20%	24.94%	45.789	
20 Day Average Volume	1,565,332	494,441	1,603,615	179,131	426,922	3,465,09	
(F1) EPS Est 1 week change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
(F1) EPS Est 4 week change	-0.40%	0.00%	0.00%	0.00%	-4.76%	0.00%	
(F1) EPS Est 12 week change	0.77%	-8.45%	-0.57%	-3.62%	-8.11%	-14.279	
(Q1) EPS Est Mthly Chg	-0.89%	0.00%	0.00%	0.00%	-20.11%	0.009	

# **Zacks Stock Rating System**

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

### **Zacks Recommendation**

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we have an excellent balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

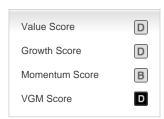
### **Zacks Rank**

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

# **Zacks Style Scores**

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.



As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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