

Analog Devices, Inc. (ADI)

\$167.34 (As of 06/10/21)

Price Target (6-12 Months): **\$176.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 09/11/20)

Prior Recommendation: Outperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM: C

Value: C

Growth: C

Momentum: C

Summary

Analog Devices reported strong fiscal second quarter results wherein both earnings and revenues grew year over year. Strong performance delivered by the company across all end-markets, especially the industrial and automotive markets drove the top-line growth. Further, solid demand for high-performance analog as well as mixed signal solutions was a tailwind. Strengthening momentum across the electric vehicle space on the back of robust Battery Management System solutions remains a positive. Further, growing power design wins are other positives. Notably, the company is acquiring Maxim Integrated. The deal is expected to drive Analog Devices' growth across several emerging growth markets. The stock has outperformed its industry on a year-to-date basis. However, weakening momentum across major applications and leveraged balance sheet are woes.

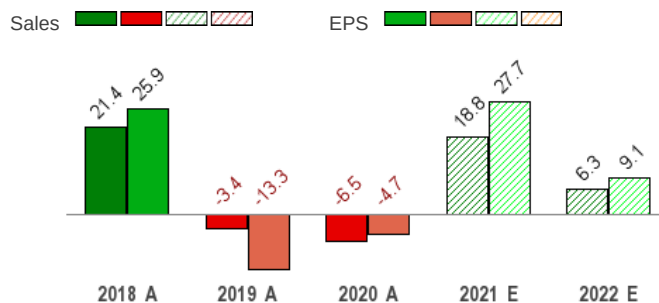
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$167.87 - \$110.47
20-Day Average Volume (Shares)	3,418,516
Market Cap	\$61.7 B
Year-To-Date Price Change	13.3%
Beta	1.25
Dividend / Dividend Yield	\$2.76 / 1.6%
Industry	Semiconductor - Analog and Mixed
Zacks Industry Rank	Top 12% (29 out of 250)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	6.2%
Last Sales Surprise	3.6%
EPS F1 Estimate 4-Week Change	4.3%
Expected Report Date	08/18/2021
Earnings ESP	0.0%
P/E TTM	29.0
P/E F1	26.7
PEG F1	2.2
P/S TTM	10.0

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2022	1,719 E	1,766 E	1,780 E	1,804 E	7,074 E
2021	1,558 A	1,661 A	1,705 E	1,742 E	6,656 E
2020	1,304 A	1,317 A	1,456 A	1,526 A	5,603 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2022	\$1.62 E	\$1.70 E	\$1.72 E	\$1.76 E	\$6.84 E
2021	\$1.44 A	\$1.54 A	\$1.61 E	\$1.67 E	\$6.27 E
2020	\$1.03 A	\$1.08 A	\$1.36 A	\$1.44 A	\$4.91 A

*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 06/10/2021. The report's text and the analyst-provided price target are as of 06/11/2021.

Overview

Analog Devices, Inc. is headquartered in Norwood, Massachusetts. The company is an original equipment manufacturer of semiconductor devices, specifically, analog, mixed signal and digital signal processing (DSP) integrated circuits.

The product line is composed of amplifiers and comparators; analog to digital converters; digital to analog converters; video encoders and decoders; embedded processing products and DSPs; MEMS and temperature sensors; RF/IF components and converters; power and thermal management ICs, audio/video converters, amplifiers, CODECs, filters and processors.

The company also offers analog, digital and RF switches and multiplexers; analog microcontrollers; clock and timing products; voltage references; interface products such as isolators, translators and transceivers; wireless products and converters; broadband products including amplifiers, CODECs, chipsets, splitters.

Analog Devices has manufacturing facilities in the United States, Ireland, and Southeast Asia. The company also uses outside foundries, mainly Taiwan Semiconductor Manufacturing Company for front-end processing and third-party subcontractors for back-end operations.

Notably, the company generated \$5.60 billion revenues in fiscal 2020.

The company generates revenues from four organized end-markets – Industrial, Consumer, Communications and Automotive.

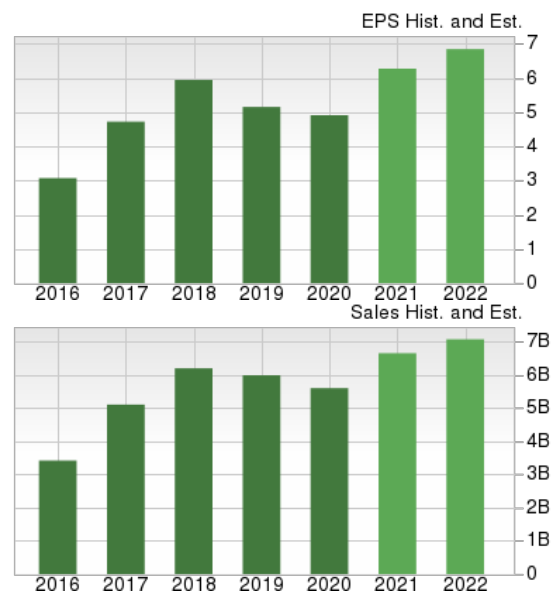
In Industrial market (53% of fiscal 2020 revenues), Analog Devices caters to the needs of industrial and instrumentation, defense/aerospace, energy management and healthcare sectors.

In Communications market (21%), Analog Devices offers products required in internet infrastructures, broadband and wireless applications.

For Automotive market (14%), the company offers products that are utilized in infotainment, electrification, autonomous, ADAS and safety applications.

Further, the company takes care of the requirements in feature-rich, high-performance products such as portable devices and prosumer video/audio equipment in the Consumer market (11%).

The company caters to the growing demand for its products in these afore mentioned markets via its strong sales channels. We note that it has direct sales offices, sales representatives and distributors in more than 50 countries.



Reasons To Buy:

- ▲ Analog Devices is the second largest producer of analog chips after Texas Instruments. The company should benefit from its strong market position in high performance analog (HPA), especially in the industrial, communications infrastructure and consumer markets. Within HPA, Analog Devices has a leading market position in converters, where it has around half the market share. Additionally, the company sells converters and amplifiers in integrated forms, which are categorized as "other analog" products. Analog Devices also has a leading position in the digital signal processor (DSP) market.
- ▲ Analog Devices plans to acquire Maxim Integrated Products. The move is expected to strengthen presence in the chip industry. The acquisition is expected drive Analog Devices' growth across several emerging markets. Moreover, the deal will expand the company's total addressable, allowing it to cater to staggering demand in some of the promising markets including industrial, automotive and telecommunications. Analog Devices is likely to gain strong traction across autonomous driving, 5G network and several other applications on the back of Maxim's robust chip offerings that are usable in communications, healthcare cars, manufacturing, energy and connected devices.
- ▲ The company has been investing in products for the automotive market, mainly because the electronic content in automobiles, particularly in the safety and infotainment areas, is on the rise. The Automotive electronics market is continuing to gain due to consumer demand for added technology and features in new vehicles and the transition to hybrid and electric vehicles. For instance, the company's start-stop technology that enables better fuel efficiency and compliance with CAFÉ standards has been widely adopted in Europe and is gaining traction in the U.S. Government mandated requirements that all new vehicles be equipped with better safety features and environmental controls is also an important growth driver. The fact that safety devices are moving from high-end to mainstream vehicles is also a positive for a company such as Analog Devices. Management's continuous collaboration with innovative TAR brands, development of new technology along with a strengthening in Europe and China should benefit the company. We expect the company to leverage its already-strong market position to drive deeper penetration, and possibly, take some market share.
- ▲ Analog Devices has a healthy communications business, where twin trends are currently driving revenues for the company. In the more developed economies, the market is driven by data density, meaning the need to expand infrastructure capacity to allow for rich media transfers (photos, video and so on). Moreover, the move to digital networks by carriers, such as AT&T is also driving demand for the company's products. In lesser developed economies, basic infrastructure needs have not yet been met in many cases. Therefore, growth in these regions is based on demand for building the network. The communications market (one of the largest consumers of analog chips) should see strong growth over the next few years. Most of the strength will however come from the wireless segment. We believe growing adoption of advanced radio systems in 5G infrastructure should continue to benefit the communications segment.

Analog Devices' diversified product portfolio is the key catalyst. Its leading market position and focus on communications, automotive and industrial markets remain major positive.

Reasons To Sell:

- ▼ Analog Devices is one of the older players in the analog market. But Texas Instruments in particular could be something to worry about, as it has been taking market share in the high performance analog space. Since the National Semiconductor takeover, Texas Instruments' position in the market has strengthened further. Analog Devices continues to lead in the converter segment, but Texas Instruments remains a strong leader in all other categories.
- ▼ Analog Devices' balance sheet remains leveraged. As of May 1, 2021, the company's net debt amounted to \$3.8 billion, compared with \$4.09 billion as of Jan 30, 2021. Further, debt to total capital was 29.7% as of May 1, 2021, compared with 30% as of Jan 30, 2021. Although declining net debt balance and debt-to-capital ratio remain encouraging, the presence of current debt remains a concern. Moreover, accumulating high debt levels might restrict sufficient cash flow generation which is needed to meet future debt obligations.
- ▼ Moreover, the company is trading at premium in terms of Price/Sales (P/S). Analog Devices currently has a trailing 12-month P/S ratio of 9.59. This level compares unfavorably with what the industry witnessed in the last year. Additionally, the ratio is near the high end of the valuation range in this period. Consequently, the valuation looks slightly stretched from P/S perspective.

Analog Devices suffers from intensifying competition in the analog market which remains a risk for its market position.

Last Earnings Report

Analog Devices Beats Q2 Earnings & Revenue Estimates

Analog Devices has reported second-quarter fiscal 2021 adjusted earnings of \$1.54 per share, beating the Zacks Consensus Estimate by 6.2%. Further, the bottom line increased 43% year over year and 6.9% sequentially.

Revenues of \$1.7 billion surpassed the Zacks Consensus Estimate of \$1.6 billion. Also, the top line improved 26% year over year and 6.6% from the first-quarter fiscal 2021 level.

Strong performance delivered by the company across all end-markets, especially the industrial and automotive markets, drove the top line.

Revenues by End Markets

Industrial: The company generated revenues of \$927.2 million (accounting for 59% of total revenues), which grew 36% year over year.

Communications: Revenues from the market were \$276.9 million (17% of revenues), increasing 0.1% year over year.

Automotive: Revenues from the market summed \$257.6 million (16% of revenues), up 42% from the year-ago quarter.

Consumer: The market generated revenues of \$154.7 million (9% of revenues), reflecting 8% growth on a year-over-year basis.

Operating Details

Adjusted gross margin expanded 320 basis points (bps) on a year-over-year basis to 70.9%.

Adjusted operating expenses were \$483.7 million, up 23.9% from the year-ago quarter. As a percentage of revenues, adjusted operating expenses were 29.1%, contracting 50 bps year over year.

Adjusted operating margin expanded 370 bps on a year-over-year basis to 41.7% in the reported quarter.

Balance Sheet & Cash Flow

As of May 1, 2021, cash and cash equivalents were \$1.3 billion, up from \$1.05 billion as of Jan 30, 2021.

Long-term debt was \$3.8 billion at the end of the fiscal second quarter, down from \$4.7 billion at the end of the fiscal first quarter.

Net cash provided by operations was \$736.4 million in the reported quarter, up from \$427.9 million in the prior quarter.

The company generated \$677.2 million of free cash flow in the fiscal second quarter.

Additionally, Analog Devices returned \$443 million to its shareholders of which it made dividend payments worth \$254 million and repurchased shares worth \$189 million in the fiscal second quarter.

Guidance

For third-quarter fiscal 2021, the company expects revenues of \$1.7 billion (+/- \$70 million).

Non-GAAP earnings are expected to be \$1.61 (+/- \$0.11) per share.

The company anticipates non-GAAP operating margins of 42.5% (+/- 100 bps).

Quarter Ending	04/2021
Report Date	May 19, 2021
Sales Surprise	3.62%
EPS Surprise	6.21%
Quarterly EPS	1.54
Annual EPS (TTM)	5.78

Recent News

On **May 26, 2021**, Analog Devices introduced ASIL-D functional safety and innovative new low-power features in the battery management system portfolio to ensure continuous monitoring of batteries.

On **Apr 12, 2021**, Analog Devices revealed new carbon neutrality and net-zero emission commitments to bolster its climate strategy. The company has pledged to reach carbon neutrality and net-zero emissions by 2030 and 2050, respectively. Moreover, it is committed to Science Based Targets.

On **Apr 7, 2021**, Analog Devices teamed up with MDA to offer the beam forming integrated circuit for the for the Telesat Lightspeed low earth orbit (LEO) satellite constellation.

On **Mar 25, 2021**, Analog Devices rolled out an ASIC-based radio platform for 5G O-RAN Ecosystem.

On **Feb 22, 2021**, Analog Devices announced the deployment of its integrated circuits (IC) in the Volvo Cars' first pure electric SUV—the Volvo XC40 Recharge. Notably, these ICs support battery management system and Automotive Audio Bus.

Valuation

Analog Devices shares are up 13.3% in the year-to-date period and 41.3% over the trailing 12-month period. Stocks in the Zacks sub-industry and the Zacks Computer & Technology sector are up 12.8% and 14.4% in the year-to-date period, respectively. Over the past year, the Zacks sub-industry and the sector are up 62.2% and 51.1%, respectively.

The S&P 500 index is up 13.6% in the year-to-date period and 41.6% in the past year.

The stock is currently trading at 25.28X forward 12-month earnings, which compares to 25.22X for the Zacks sub-industry, 27.39X for the Zacks sector and 21.84X for the S&P 500 index.

Over the past five years, the stock has traded as high as 27.53X and as low as 13.31X, with a 5-year median of 19.54X. Our Neutral recommendation indicates that the stock will perform in line with the market. Our \$176 price target reflects 26.54X forward 12-month earnings.

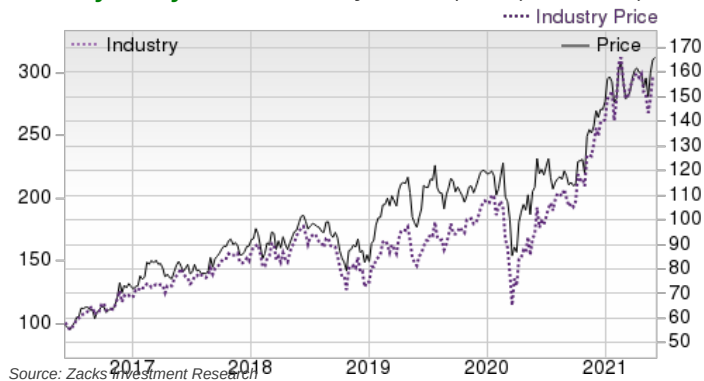
The table below shows summary valuation data for ADI

Valuation Multiples - ADI					
		Stock	Sub-Industry	Sector	S&P 500
P/E F 12M	Current	25.28	25.22	27.39	21.84
	5-Year High	27.53	27.24	28.35	23.83
	5-Year Low	13.31	13.25	16.99	15.31
	5-Year Median	19.54	18.53	20.24	18.05
P/S F 12M	Current	8.93	6.17	4.87	4.72
	5-Year High	9.4	6.37	4.87	4.74
	5-Year Low	4.55	2.94	2.81	3.21
	5-Year Median	6	3.98	3.53	3.72
EV/Sales TTM	Current	10.36	7.76	5.59	4.86
	5-Year High	11.32	8.21	5.8	4.86
	5-Year Low	4.17	3.46	3.09	2.65
	5-Year Median	7.46	4.64	4	3.64

As of 06/10/2021

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Top 12% (29 out of 250)



Top Peers

Company (Ticker)	Rec	Rank
Texas Instruments Incorporated (TXN)	Outperform	2
Applied Materials, Inc. (AMAT)	Neutral	2
Broadcom Inc. (AVGO)	Neutral	2
Infineon Technologies AG (IFNNY)	Neutral	2
Microchip Technology Incorporated (MCHP)	Neutral	2
Monolithic Power Systems, Inc. (MPWR)	Neutral	2
Maxim Integrated Products, Inc. (MXIM)	Neutral	2
NXP Semiconductors N.V. (NXPI)	Neutral	2

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Semiconductor - Analog And Mixed				Industry Peers		
	ADI	X Industry	S&P 500	AMAT	AVGO	MXIM
Zacks Recommendation (Long Term)	Neutral	-	-	Neutral	Neutral	Neutral
Zacks Rank (Short Term)	3	-	-	2	2	2
VGM Score	C	-	-	C	B	F
Market Cap	61.72 B	15.71 B	30.26 B	125.36 B	191.36 B	27.80 B
# of Analysts	12	8	12	9	12	9
Dividend Yield	1.65%	0.00%	1.28%	0.70%	3.07%	0.00%
Value Score	C	-	-	D	C	F
Cash/Price	0.02	0.06	0.06	0.05	0.05	0.07
EV/EBITDA	27.74	30.77	17.41	25.94	19.96	34.02
PEG F1	2.14	2.09	2.14	1.17	1.14	3.31
P/B	5.07	6.51	4.16	10.45	7.99	12.94
P/CF	23.44	32.51	17.71	29.68	12.43	38.14
P/E F1	26.59	26.68	21.55	21.01	17.06	33.12
P/S TTM	9.95	6.81	3.49	6.32	7.49	11.31
Earnings Yield	3.75%	3.75%	4.55%	4.76%	5.86%	3.02%
Debt/Equity	0.31	0.46	0.66	0.45	1.68	0.46
Cash Flow (\$/share)	7.14	2.72	6.83	4.62	37.71	2.72
Growth Score	C	-	-	C	C	D
Historical EPS Growth (3-5 Years)	9.49%	3.67%	9.44%	17.86%	15.08%	7.25%
Projected EPS Growth (F1/F0)	27.71%	66.32%	21.30%	56.52%	23.98%	38.40%
Current Cash Flow Growth	-3.50%	-3.50%	0.98%	30.36%	13.51%	-8.10%
Historical Cash Flow Growth (3-5 Years)	16.62%	10.69%	7.28%	18.22%	35.33%	-0.43%
Current Ratio	1.05	4.78	1.39	3.10	2.21	5.38
Debt/Capital	23.91%	31.65%	41.53%	31.25%	62.67%	31.65%
Net Margin	25.16%	6.42%	11.95%	22.35%	19.11%	31.77%
Return on Equity	17.91%	17.91%	16.36%	45.08%	41.39%	41.37%
Sales/Assets	0.29	0.60	0.51	0.87	0.33	0.64
Projected Sales Growth (F1/F0)	18.78%	20.05%	9.37%	31.67%	14.04%	18.55%
Momentum Score	C	-	-	C	A	F
Daily Price Change	0.58%	0.85%	0.21%	1.86%	1.02%	0.60%
1-Week Price Change	0.60%	-0.63%	0.58%	1.25%	0.57%	0.41%
4-Week Price Change	14.12%	11.36%	1.55%	14.38%	8.84%	14.54%
12-Week Price Change	11.97%	2.28%	7.72%	20.02%	0.97%	17.69%
52-Week Price Change	44.69%	81.56%	46.01%	147.54%	59.55%	81.56%
20-Day Average Volume (Shares)	3,418,516	729,419	1,775,554	9,099,504	1,610,290	2,530,493
EPS F1 Estimate 1-Week Change	0.00%	0.00%	0.00%	0.00%	1.83%	0.00%
EPS F1 Estimate 4-Week Change	4.28%	0.00%	0.03%	9.16%	2.68%	0.00%
EPS F1 Estimate 12-Week Change	4.54%	12.41%	3.52%	8.96%	2.68%	4.80%
EPS Q1 Estimate Monthly Change	5.55%	0.00%	0.00%	13.10%	4.78%	0.00%

Source: Zacks Investment Research

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 maintain a 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.

Value Score	C
Growth Score	C
Momentum Score	C
VGM Score	C

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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Returns quoted represent past performance which is no guarantee of future results. Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as a the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.