

Concentrix Corporation

Macro remains challenging, but some signs of stability; No impact from Gen Al yet

Reiterate Rating: NEUTRAL | PO: 102.00 USD | Price: 88.34 USD

Guided low-single digit y/y growth for FY24 (pro-forma)

CNXC reported F4Q23 revenue of \$2.23bn, which came in slightly higher than the guidance range of \$2.190-2.215bn (mid-point \$2.20bn). EPS was \$3.36 and included \$0.23 benefit from lower tax rate. Ex the tax benefit, EPS came in at the higher end of the guidance range of \$3.03 to \$3.15 (mid-point \$3.09). In our opinion, F24 rev guidance of 1-3% y/y growth in pro-forma CC factors in faster revenue growth for Webhelp vs the core CNXC business. The macro remains challenging, and there is some price pressure on lower complexity work. The integration with Webhelp is going well, and management is on-track to realize the \$75mn in first year cost synergies. CNXC is running multiple proof-of-concepts for customers, but meaningful impact is likely late C24, early C25. We reiterate our Neutral rating on weaker macro, higher debt, as part of the Webhelp merger, and integration risk, balanced by Webhelp helping to improve the company's footprint and competitive position, global scale, brand name, and attractive valuation.

Order stability despite weak operating environment

The operating environment is weak, but the company is seeing some stability in customer orders/forecasts. The catalyst business has reached a level of stability and management expects it can grow slightly faster than the rest of the business in F24. Management is confident in F24 FCF guide of \$700mn. The combination with Webhelp has opened avenues for CNXC clients in Europe to move their operations to near-shore and off-shore locations, which creates some near-term revenue headwind, but over time can improve profitability and stickiness of the customer relationship.

Focusing on debt reduction and maintaining dividend

Capital allocation priorities remain paying down debt and reducing net leverage while continuing to support the dividend. At the end of F4Q \$290mn remained on the buyback authorization. We do not expect large share buybacks in F24. Any M&A would be of the tuck-in variety focused on acquiring domain or technology expertise.

Adjusting estimates; PO stays at \$102

Our F24 revenue/EPS move to \$9.6bn/\$12.04. Our PO stays at \$102 on about 8x (unchanged) C24E EPS (slightly higher multiple on some stability in orders).

Estimates (Nov) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	11.19	11.45	12.10	13.20	14.34
GAAP EPS	8.28	5.70	4.66	6.96	8.60
EPS Change (YoY)	10.4%	2.3%	5.7%	9.1%	8.6%
Consensus EPS (Bloomberg)			12.81	13.92	15.64
DPS	1.03	1.14	1.21	1.21	1.21
Valuation (Nov)					
P/E	7.9x	7.7x	7.3x	6.7x	6.2x
GAAP P/E	10.7x	15.5x	19.0x	12.7x	10.3x
Dividend Yield	1.2%	1.3%	1.4%	1.4%	1.4%
EV / EBITDA*	10.9x	9.5x	6.7x	6.5x	6.1x
Free Cash Flow Yield*	7.8%	8.5%	12.3%	14.1%	16.1%
* For full definitions of <i>IQ</i> method SM measures, see page 8.					

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 9 to 11. Analyst Certification on page 7. Price
Objective Basis/Risk on page 7.

Timestamp: 25 January 2024 12:41PM EST

25 January 2024

Equity

Key Changes		
(US\$)	Previous	Current
2024E Rev (m)	9,933.7	9,602.8
2025E Rev (m)	10,475.7	9,934.9
2026E Rev (m)	NA	10,469.9
2024E EPS	13.44	12.10
2025E EPS	14.83	13.20
2026E EPS	NA	14.34

Ruplu Bhattacharya

Research Analyst BofAS +1 646 855 0315 ruplu.bhattacharya@bofa.com

Wamsi Mohan

Research Analyst BofAS +1 646 855 3854 wamsi.mohan@bofa.com

Joseph Leeman

Research Analyst BofAS

Nathawan Asdornwised

Research Analyst BofAS

Stock Data

Price	88.34 USD
Price Objective	102.00 USD
Date Established	19-Dec-2023
Investment Opinion	B-2-7
52-Week Range	70.58 USD - 151.82 USD
Mrkt Val (mn) / Shares Out	5,884 USD / 66.6
(mn)	
Free Float	84.4%
Average Daily Value (mn)	42.60 USD
BofA Ticker / Exchange	CNXC / NAS
Bloomberg / Reuters	CNXC US / CNXC.OQ
ROE (2024E)	18.5%
Net Dbt to Eqty (Nov-2023A)	112.1%
ESGMeter™	Medium

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology".

CC: Constant Currency, OM: Operating Margin Al: Artificial Intelligence, FCF: Free Cash Flow

iQprofile[™] Concentrix Corporation

iQmethod SM – Bus Performance*					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Return on Capital Employed	13.3%	9.6%	9.9%	10.0%	10.1%
Return on Equity	21.8%	18.1%	18.5%	18.5%	18.1%
Operating Margin	14.0%	14.2%	14.8%	14.9%	15.0%
Free Cash Flow	461	497	721	829	945
<i>iQ</i> method [™] – Quality of Earnings*					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash Realization Ratio	1.0x	1.1x	1.2x	1.3x	1.3x
Asset Replacement Ratio	0.5x	0.5x	0.4x	0.4x	0.4x
Tax Rate	27.4%	24.3%	26.5%	26.5%	26.5%
Net Debt-to-Equity Ratio	77.1%	112.1%	91.0%	68.5%	46.5%
Interest Cover	12.6x	5.8x	4.8x	5.8x	6.4>
Income Statement Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Sales	6,324	7,115	9,603	9,935	10,470
% Change	13.2%	12.5%	35.0%	3.5%	5.4%
Gross Profit	2,257	2,578	3,602	3,728	3,927
% Change	14.6%	14.2%	39.7%	3.5%	5.3%
EBITDA	1,031	1,182	1,669	1,739	1,843
% Change	18.0%	14.6%	41.2%	4.2%	6.0%
Net Interest & Other Income	(77)	(186)	(325)	(286)	(276)
Net Income (Adjusted)	579	618	794	861	929
% Change	9.9%	6.8%	28.3%	8.5%	7.9%
Free Cash Flow Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Net Income from Cont Operations (GAAP)	428	308	306	454	557
Depreciation & Amortization	310	387	588	582	584
Change in Working Capital	(165)	(38)	(17)	(46)	(27)
Deferred Taxation Charge	NA	NA	NA	NA	NA
Other Adjustments, Net	28	21	85	87	92
Capital Expenditure	(140)	(181)	(240)	(248)	(262)
Free Cash Flow	461	497	721	829	945
% Change	26.2%	8.0%	45.0%	15.0%	13.9%
Share / Issue Repurchase	(133)	(51)	(31)	(44)	(44)
Cost of Dividends Paid	(53)	(62)	(79)	(79)	(78)
Change in Debt	1,415	2,248	0	0	C
Balance Sheet Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Cash & Equivalents	145	295	906	1,613	2,435
Trade Receivables	1,390	1,889	2,456	2,451	2,601
Other Current Assets	218	674	789	936	960
Property, Plant & Equipment	404	749	742	735	725
Other Non-Current Assets	4,512	8,884	8,555	8,233	7,922
Total Assets	6,670	12,492	13,448	13,967	14,643
Short-Term Debt	1 122	2	2 726	2	2.000
Other Current Liabilities	1,132	2,072	2,736	2,832	2,980
Long-Term Debt	2,224	4,940	4,940	4,940	4,940
Other Non-Current Liabilities	617	1,335	1,335	1,335	1,335
Total Liabilities	3,974	8,349	9,013	9,109	9,256
Total Equity	2,696	4,143	4,435	4,858	5,387
Total Equity & Liabilities	6,670	12,492	13,448	13,967	14,643

Company Sector

IT Hardware

Company Description

Concentrix is a leading global provider of Customer Experience (CX) solutions. The company provides services in 70 languages, in 40+ countries. from 275+ locations in the Americas, Asia-Pacific and EMEA. It has 250,000+ employees. Focus areas are 1) Customer Lifecycle Management, 2) CX/UX Strategy & Design, 3) Digital Transformation, and 4) Voice of the Customer (VOC) and Analytics. Channels of communication used are voice, chat, email, social media, asynchronous messaging, & custom applications

Investment Rationale

Our Neutral rating is based on risk/reward balance where negatives including weaker macro (causing projects to get delayed, slower growth in revenue from new economy clients, and volume softness in multiple verticals, 2) uncertainty around impact of Generative Al/ChatGPT, and 3) higher risk from larger debt from the Webhelp merger, is balanced by positives including 1) strong new win rate, 2) Webhelp adding footprint in Latin American and Europe, 3) brand name, and 4) attractive valuation.

Stock Data

Average Daily Volume

482,230

Quarterly Earnings Estimates

	2023	2024
Q1	2.59A	2.58E
Q2	2.63A	2.78E
Q3	2.76A	3.20E
Q4	3.36A	3.55E

Takeaways from the earnings call

- CNXC reported F4Q23 revenue of \$2.23bn, which came in higher than the guidance range of \$2.19-2.215bn (mid-point \$2.20bn).
- Revenue growth by vertical:
 - Technology and consumer electronics: 21%y/y (reported), 1% y/y (proforma)
 - Retail, travel and e-commerce: 68% y/y (reported), 12% y/y (proforma)
 - Banking, financial services and insurance: 38% y/y (reported), 6% y/y (pro-forma)
 - Communications and media: 31% y/y (reported), -3% y/y (pro-forma)
 - Healthcare: 12% y/y (reported), 5% y/y (pro-forma)
 - Other: 61% y/y (reported), -6% y/y (pro-forma)
- CNXC grew revenues on a pro-forma basis with 14 out of its 20 largest clients, but saw softer volumes with some customers in consumer electronics, retail, ecommerce and communications.
- F4Q operating margin came in at 15.3%, and EBITDA margin was 17.8%
- Going forward, CNXC's reporting of non-GAAP net income and EPS will exclude the change in fair value of contingent share consideration related to the Webhelp combination and net foreign currency gains and losses. The company has restated earnings for prior quarters (till F1Q22) to reflect this change.
- F4Q reported EPS was \$3.36 and included \$0.23 benefit from lower tax rate which came in at 20.6% vs. guidance of 26%. Ex the tax benefit, EPS came in at the higher end of the guidance range of \$3.03 to \$3.15 (mid-point \$3.09).
- Free Cash Flow (FCF) in F4Q was \$164mn, and included \$40mn of transaction and integration costs.
- FCF for F23 exceeded \$500mn, ex the transaction and integration costs associated with Webhelp.
- F4Q included Webhelp integration cost of \$20mn. We expect \$80mn of integration costs in F24, followed by \$20mn of integration cost in F25.
- In terms of cost synergies, the company is on-track to achieve \$75mn in year 1 after the transaction close. The current achieved net synergy run rate is about \$55mn on an annualized basis. We expect that to grow to \$105mn in year 2, and then to \$120mn in year 3.
- At the end of F4Q23, net leverage stood at 3.0x which compares to 3.2x at the close
 of the Webhelp transaction. Management targets getting to 2.5x by the end of F24,
 assuming no further acquisitions. And then down to 2.0x within two years after
 transaction close.
- Capital allocation priorities remain paying down debt and reducing net leverage while continuing to support the dividend. At the end of F4Q \$290mn remained on the buyback authorization. We do not expect large share buybacks in F24. Any M&A



would be of the tuck-in variety focused on acquiring domain or technology expertise.

- The combination with Webhelp has opened avenues for CNXC clients in Europe to
 move their operations to near-shore and off-shore locations, which creates some
 near-term revenue headwinds, but over time can improve profitability and stickiness
 of the customer relationship. CNXC also has clients in North America looking to
 move off-shore.
- Management guided F24 revenue to grow 1-3% y/y in constant currency (CC) on a pro-forma basis. FX represents a 70bps y/y revenue headwind. Similar to F23, management has assumed a muted F4Q24. New economy clients (which we estimate account for low to mid 20% of revenues for CNXC) are not expected to come back in a meaningful way. CNXC management has also not factored in significant revenue synergies from the Webhelp transaction. In our opinion, it would take 6 to 8 months before CNXC would see meaningful opportunities from the two businesses coming together. F24 revenue guidance is based on current macro conditions, inflation etc.
- In our opinion, F24 revenue guidance factors in meaningfully faster revenue growth for Webhelp vs. the core CNXC business.
- Revenues in CNXC's Catalyst business (digital IT services) have stabilized and are growing at the same rate as the remaining business. And at some point in F24 management expects revenues in this business can grow slightly faster than the overall business.
- Management has well over 140 Al proof of concepts (POC) in place with customers, but does not expect meaningful revenue impact until perhaps end of F24, or F25.
- The pricing environment remains very competitive, especially in the higher volume, commodity type of work. CNXC is seeing price stability (but not price increases) in higher value type of work.

Model

Exhibit 1: CNXC Income Statement

We model F24 revenue/EPS of \$9.6bn/\$12.10

		F2023				F20	24E						
(\$ Millions Except EPS)	2/23	5/23	8/23	11/23	2/24E	5/24E	8/24E	11/24E	F2022	F2023	F2024E	F2025E	F2026E
Income Statement													
Revenues	\$1,636.4		\$1,632.8	\$2,230.8		\$2,375.5	\$2,381.7	\$2,456.2	\$6,324.5	\$7,114.7	\$9,602.8	\$9,934.9	\$10,469.9
Customer experience services	1,636.4	1,614.7	1,632.8	2,230.8	2,389.4	2,375.5	2,381.7	2,456.2	6,324.5	7,114.7	9,602.8	9,934.9	10,469.9
Proforma revenue (Concentrix + Webhelp)	2,362.0	2,339.1	2,367.1	2,417.4	2,389.4 1.2%	2,375.5 1.6%	2,381.7 0.6%	2,456.2 1.6%		\$9,485.6	\$9,602.8 1.2%	\$9,934.9 3.5%	\$10,469.9 5.4%
y/y q/q		-1.0%	1.2%	2.1%	-1.2%	-0.6%	0.8%	3.1%			1.290	3.3%	3.4%
Cost of Goods	1,055.2	1,034.5	1,039.1	1,407.9	1,529.2	1,496.6	1,476.7	1,498.3	4,067.2	4,536.8	6,000.7	6,206.6	6,542.6
Gross Profit	581.2	580.2	593.7	822.9	860.2	878.9	905.1	957.9	2,257.3	2,577.9	3,602.1	3,728.3	3,927.3
SG&A	363.6	359.6	362.7	482.1	540.0	546.4	535.9	557.5	1,373.1	1,567.9	2,179.8	2,245.3	2,355.7
Operating Income (Excl. Options)	\$217.6	\$220.6	\$231.0	340.8	320.2	332.6	369.2	400.4	884.1	1,010.0	1,422.3	1,483.0	1,571.6
StockComp. Expense Op. Income, adj for Stock Comp. Ex	16.8 200.9	11.2 209.4	10.7 220.3	23.8 316.9	21.0 299.2	20.9 311.7	21.0 348.2	21.6 378.7	47.5 836.6	62.5 947.5	84.5 1,337.8	87.4 1,395.6	92.1 1,479.5
	240	25.4	25.6	70.5	70.0	72.0	71.0	70.7	70.1	175.4	205.0	256.0	2450
Interest Expense/(Income) Other expense/(Income), net	34.0 2.1	35.4 1.9	35.6 1.6	70.5 4.6	79.2 7.5	73.8 7.5	71.3 7.5	70.7 7.5	70.1 6.9	175.4 10.2	295.0 30.0	256.0 30.0	245.9 30.0
•		400.0		055.5	222.5	254.2	200.4	200.0	007.0	00.40	4.007.0		
Pretax Income Taxes	181.6 46.5	183.3 46.7	193.8 51.2	265.6 55.6	233.5 61.9	251.3 66.6	290.4 76.9	322.2 85.4	807.2 221.5	824.3 200.0	1,097.3 290.8	1,197.0 317.2	1,295.7 343.4
Minority Interest	1.5	1.4	1.3	1.7	2.0	2.5	3.7	4.6	6.6	5.8	12.7	18.9	23.2
Net Income, Cont. Ops.	\$133.5	\$135.3	\$141.3	208.4	169.7	182.2	209.7	232.1	579.1	618.5	793.8	860.9	929.1
StockComp. Expense, net of taxes	(12.5)	(8.3)	(7.9)	(18.8)	(15.5)	(15.4)	(15.4)	(15.9)	(34.8)	(47.5)	(62.1)	(64.3)	(67.7)
Net Income, adj for Stock Comp. Ex	121.1	126.9	133.4	189.5	154.2	166.9	194.3	216.3	544.4	570.9	731.7	796.6	861.4
GAAP Net Income	\$86.3	\$77.5	\$76.4	\$67.8	\$47.1	\$59.0	\$88.6	\$111.3	428.5	308.0	305.9	453.9	557.4
Non-GAAP EPS (incl Options) Non-GAAP EPS (excl Options): Published	\$2.35 \$2.59	\$2.47 \$2.63	\$2.61 \$2.76	\$3.06 \$3.36	\$2.35 \$2.58	\$2.54 \$2.78	\$2.96 \$3.20	\$3.30 \$3.55	\$10.52 \$11.19	\$10.57 \$11.45	\$11.15 \$12.10	\$12.22 \$13.20	\$13.29 \$14.34
Non-GAAL ELS (excl options). Lubisileu	72.33	72.03	32.70	 	\$2.50	32.70	33.20	45.55	311.13	311.43	\$12.10	\$1J.2U	717.57
Extraordinary Items (a)	(\$0.92)	(\$1.12)	(\$1.27)	(\$2.27)	(\$1.86)	(\$1.88)	(\$1.85)	(\$1.85)	(\$2.91)	(\$5.58)	(\$7.44)	(\$6.24)	(\$5.74)
GAAP EPS Diluted Avg Shares Outstdg. (MM)	\$1.68 51.5	\$1.51 51.4	\$1.49 51.2	\$1.09 62.0	\$0.72 65.8	\$0.90 65.7	\$1.35 65.6	\$1.70 65.5	\$8.28 51.7	\$5.70 54.0	\$4.66 65.6	\$6.96 65.2	\$8.60 64.8
Basic Avg Shares Outstdg. (MM)	51.2	51.2	51.1	61.8	65.6	65.5	65.4	65.3	51.3	53.8	65.5	65.1	64.7
Margin Analysis													
% of Revenues	25.50/	25.00/	26.40/	26.00/	36.00/	27.00/	30.00/	20.00/	25.70/	26.20/	27.50/	27.50/	27.50/
Gross Profit SG&A	35.5% 22.2	35.9% 22.3	36.4% 22.2	36.9% 21.6	36.0% 22.6	37.0% 23.0	38.0% 22.5	39.0% 22.7	35.7% 21.7	36.2% 22.0	37.5% 22.7	37.5% 22.6	37.5% 22.5
Operating Income (Excl. Options)	13.3	13.7	14.1	15.3	13.4	14.0	15.5	16.3	14.0	14.2	14.8	14.9	15.0
Options Expense Op. Income, adj for Stock Comp exp	1.0 12.3	0.7 13.0	0.7 13.5	1.1 14.2	0.9 12.5	0.9 13.1	0.9 14.6	0.9 15.4	0.8 13.2	0.9 13.3	0.9 13.9	0.9 14.0	0.9 14.1
Interest Expense	2.1	2.2	2.2	3.2	3.3	3.1	3.0	2.9	1.1	2.5	3.1	2.6	2.3
Pretax Income	11.1	11.4	11.9	11.9	9.8	10.6	12.2	13.1	12.8	11.6	11.4	12.0	12.4
Tax Rate	25.6	25.5	26.4	20.9	26.5	26.5	26.5	26.5	27.4	24.3	26.5	26.5	26.5
Net Income (Excl. Options)	8.2	8.4	8.7	9.3	7.1	7.7	8.8	9.5	9.2	8.7	8.3	8.7	8.9
Y/Y Growth						/							
Revenues SG&A	7% 8%	3% 4%	3% 5%	36% 40%	46% 49%	47% 52%	46% 48%	10% 16%	13% 11%	12% 14%	35% 39%	3% 3%	5% 5%
Operating Income (excl. options)	8%	4%	4%	37%	47%	51%	60%	17%	21%	14%	41%	4%	6%
EPS (including Options)	(6%)	(9%)	(1%)	15%	(0%)	3%	14%	8%	9%	0%	5%	10%	9%
EPS (excluding Options)									1.00/	20/	COL		00/
5 (* · · · · · · · · · · · · · · · · · ·	(5%)	(9%)	(0%)	20%	(1%)	5%	16%	5%	10%	2%	6%	9%	9%
Adjusted EBITDA													
Adjusted EBITDA Non- GAAP operating income (excl. options)	\$217.6	\$220.6	\$231.0	\$340.8	\$320.2	\$332.6	\$369.2	\$400.4	\$884.1	\$1,010.0	\$1,422.3	\$1,483.0	\$1,571.6
Adjusted EBITDA Non- GAAP operating income (excl. options) Depreciation	\$217.6 38.2	\$220.6 38.2	\$231.0 38.2	\$340.8 57.2	\$320.2 61.4	\$332.6 61.3	\$369.2 61.1	\$400.4 63.2	\$884.1 \$146.9	\$1,010.0 \$171.8	\$1,422.3 \$247.0	\$1,483.0 \$255.6	\$1,571.6 \$271.4
Adjusted EBITDA Non- GAAP operating income (excl. options)	\$217.6	\$220.6	\$231.0	\$340.8	\$320.2	\$332.6	\$369.2	\$400.4	\$884.1	\$1,010.0	\$1,422.3	\$1,483.0	\$1,571.6

Source: Company reports, BofA Global Research estimates

BofA GLOBAL RESEARCH





6

Price objective basis & risk

Concentrix Corporation (CNXC)

Our price objective (PO) of \$102 is based on about 8x C24 EPS of \$12.10 (including Webhelp). This multiple is lower than the median multiple of peers (12x). We apply a lower multiple given macro headwinds and integration risk from the merger with Webhelp.

Upside risk factors are a faster-than-expected recovery in in the macro leading to higher revenues and margins, faster recovery in revenue from new economy clients, faster-than-expected growth in emerging markets, unexpected share gains, and benefits from future M&A. Downside risks to our PO include a worsening macro which could cause customers to further pull back spending, uncertainty related to the impact from Generative AI, unexpected integration costs related to the Webhelp merger, competition for talent, rising wages, unexpected loss of a large customer, sovereign risk and currency risk.

Analyst Certification

I, Ruplu Bhattacharya, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - IT Hardware and Technology Supply Chain Coverage Cluster

Amphenol APH APH US Warmsi Mohan Apple Inc. AAPL AAPL US Warmsi Mohan Corning Inc. GLW GLW US Warmsi Mohan Dell Technologies Inc. DELL DELL US Warmsi Mohan Flex Ltd. FLEX FLEX US Ruplu Bhattacharya HP Inc. HPQ HPQ US Warmsi Mohan International Business Machines Corp. IBM IBM US Warmsi Mohan International Business Machines Corp. IBM IBM US Warmsi Mohan International Business Machines Corp. IBM IBM US Warmsi Mohan International Business Machines Corp. IBM IBM US Warmsi Mohan International Business Machines Corp. IBM IBM US Warmsi Mohan Roku, Inc. ROKU ROKU US Ruplu Bhattacharya Seagate Technology STX STX US Warmsi Mohan Sensata Technologies Holdings Plc ST ST US Warmsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Warmsi Mohan Teradata Corporation TDC TDC US Warmsi Mohan Western Digital Corporation WDC WDC US Warmsi Mohan Western Digital Corporation WDC WDC US Warmsi Mohan Mohan Arrow Electronics Inc. ARW ARW S Ruplu Bhattacharya CDW Corp CDW CDW CDW S Ruplu Bhattacharya CDW Corp CDW CDW S Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Warmsi Mohan Pure Storage	Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
Apple Inc. Corning Inc. Corning Inc. QLW GLW US Wamsi Mohan Dell Technologies Inc. Dell L Dell LUS Wamsi Mohan Pell Technologies Inc. Flex Ltd. FLEX FLEX US Ruplu Bhattacharya HP Inc. HPQ HPQ US Wamsi Mohan International Business Machines Corp. IBM IBM US Ruplu Bhattacharya International Business Machines Corp. IBM IBM US Ruplu Bhattacharya Nutanix Inc NTNX NTNX US Ruplu Bhattacharya Roku, Inc. Roku, Inc. Roku, Inc. Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc STX STX US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Wamsi Mohan TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Annet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya CDW Corp COW COP COW COP COW COP COW COP COW COP US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPEFFORM DigitalOcean NetApp Inc. NTAP NTAP NTAP US Wamsi Mohan NAP US Ruplu Bhattacharya Ruplu Bhattacharya Howani Mohan NetApp Inc. NAPA NTAP US Wamsi Mohan NAPA NTAP US Ruplu Bhattacharya	BUY				
Corning Inc. Dell Technologies Inc. Dell Lechnologies Inc. HPQ HPQ US Wamsi Mohan International Business Machines Corp. IBM IBM US Wamsi Mohan International Business Machines Corp. IBM IBM US Wamsi Mohan Ibil Inc. Ibl JBL IBL US Ruplu Bhattacharya Nutanix Inc NTNX NTNX US Wamsi Mohan Roku, Inc. ROKU ROKU S Ruplu Bhattacharya Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Wamsi Mohan TD Synnex Corp TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW US Ruplu Bhattacharya CONCorp COW CDW US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPEFFORM DigitalOcean Porc NAC CNXC SRUPL Bhattacharya Here Lechard Enterprise HPE HPE US Wamsi Mohan UNDERPEFFORM DigitalOcean NELORU SAMM SAMM SAMM SAMM SAMM SAMM SAMM SAM		Amphenol	APH	APH US	Wamsi Mohan
Dell Technologies Inc. DELL DELL US Wamsi Mohan		Apple Inc.	AAPL	AAPL US	Wamsi Mohan
Flex Ltd. FLEX FLEX FLEX US Ruplu Bhattacharya HP Inc. HPQ HPQ US Wamsi Mohan International Business Machines Corp. IBM IBM US Wamsi Mohan Jabil Inc. IBL IBL US Ruplu Bhattacharya Nutanix Inc NTNX NTNX US Wamsi Mohan Roku, Inc. ROKU ROKU US Ruplu Bhattacharya Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya CDW Corp CONC CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPERFORM UNDERPERFORM DigitalOcean Next DOCN DOCN US Wamsi Mohan Vamsi Mohan Vamsi Mohan Sanmina Corporation SAMM SAMM US Ruplu Bhattacharya Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US VSH US Ruplu Bhattacharya Ruplu Bhattacharya Namsi Mohan Sanmina Corporation SAMM SAMM US Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya Namsi Mohan Sanmina Corporation SAMM SAMM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US VSH US Ruplu Bhattacharya		Corning Inc.	GLW	GLW US	Wamsi Mohan
HP Inc. HP Inc. HP Inc. HP Q HP Q US Warnsi Mohan International Business Machines Corp. IBM IBM US Ruplu Bhattacharya Nutanix Inc NTHX NTHX US Warnsi Mohan Roku, Inc. ROKU ROKU US Ruplu Bhattacharya Seagate Technology STX STX US Warnsi Mohan Sensata Technologies Holdings Plc ST ST US Warnsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Warnsi Mohan Teradata Corporation WDC WDC US Warnsi Mohan Neutrnal Arrow Electronics Inc. AVT AVT US Ruplu Bhattacharya Avnet Inc. CDW Cop CDW CDW US Ruplu Bhattacharya COncentrix Corporation CNXC CONXC US Ruplu Bhattacharya CONCENTRIX CONXC CONXC Ruplu Bhattacharya CONCENTRIX Ruplu Bhattacharya CONCENTRIX Ruplu Bhattacharya CONCENTRIX Ruplu Bhattacharya CONCENTRIX CONXC CONXC Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Warnsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Warnsi Mohan Net App Inc. NTAP NTAP US Warnsi Mohan SANNI US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Dell Technologies Inc.	DELL	DELL US	Wamsi Mohan
International Business Machines Corp. IBM		Flex Ltd.	FLEX	FLEX US	Ruplu Bhattacharya
Jabil Inc. JBL JBL US Ruplu Bhattacharya		HP Inc.	HPQ	HPQ US	Wamsi Mohan
Nutanix Inc NTNX NTNX US Wamsi Mohan Roku, Inc. ROKU ROKU US Ruplu Bhattacharya Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Teradata Corporation WDC WDC US Wamsi Mohan Teradata Corporation WDC WDC US Wamsi Mohan Wastern Digital Corporation NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW COP CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPERFORM DigitalOcean NetApp Inc. NTAP NTAP NTAP US Ruplu Bhattacharya Wamsi Mohan NetApp Inc. SANM SANM SANM SANMUS Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		International Business Machines Corp.	IBM	IBM US	Wamsi Mohan
Roku, Inc. Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Teradata Corporation Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NEADP Inc. Sammina Corporation SANM SANM US Ruplu Bhattacharya Ruplu Bhattacharya Mamsi Mohan NEADP Inc. Sammina Corporation SANM SANM SANM US Ruplu Bhattacharya		Jabil Inc.	JBL	JBL US	Ruplu Bhattacharya
Seagate Technology STX STX US Wamsi Mohan Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya CDW COP COW COW US Ruplu Bhattacharya CDW COR CONCENTIX CORporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan NetApp Inc. Sanmina Corporation SANM SANM US Ruplu Bhattacharya Ruplu Bhattacharya CNXC US Wamsi Mohan NetApp Inc. Sanmina Corporation SANM SANM SANM US Ruplu Bhattacharya		Nutanix Inc	NTNX	NTNX US	Wamsi Mohan
Sensata Technologies Holdings Plc ST ST US Wamsi Mohan TD Synnex Corp SNX SNX US Ruplu Bhattacharya TE Connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya CONCentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sammina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Roku, Inc.	ROKU	ROKU US	Ruplu Bhattacharya
TD Synnex Corp TD Synnex Corp TE Connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation Western Digital Corporation Western Digital Corporation WDC WDC US Wamsi Mohan Teradata Corporation WDC WDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW US Ruplu Bhattacharya CONCC CNXC CNXC US Ruplu Bhattacharya Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Ruplu Bhattacharya Wamsi Mohan Sanmina Corporation NETAP NTAP US Ruplu Bhattacharya Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya		Seagate Technology	STX	STX US	Wamsi Mohan
TE Connectivity Ltd. TEL TEL US Wamsi Mohan Teradata Corporation TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Ruplu Bhattacharya SANM US Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya		Sensata Technologies Holdings Plc	ST	ST US	Wamsi Mohan
Teradata Corporation TDC TDC US Wamsi Mohan Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		TD Synnex Corp	SNX	SNX US	Ruplu Bhattacharya
Western Digital Corporation WDC WDC US Wamsi Mohan NEUTRAL NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		TE Connectivity Ltd.	TEL	TEL US	Wamsi Mohan
NEUTRAL Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Teradata Corporation	TDC	TDC US	Wamsi Mohan
Arrow Electronics Inc. ARW ARW US Ruplu Bhattacharya Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya CNXC US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya Ruplu Bhattacharya Ruplu Bhattacharya		Western Digital Corporation	WDC	WDC US	Wamsi Mohan
Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya	NEUTRAL				
Avnet Inc. AVT AVT US Ruplu Bhattacharya CDW Corp CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise Pure Storage PSTG PSTG US Wamsi Mohan Pure Storage UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Arrow Electronics Inc.	ARW	ARW US	Ruplu Bhattacharya
CDW CDW US Ruplu Bhattacharya Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Wamsi Mohan Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Avnet Inc.	AVT	AVT US	
Concentrix Corporation CNXC CNXC US Ruplu Bhattacharya Hewlett-Packard Enterprise HPE HPE US Warnsi Mohan Pure Storage PSTG PSTG US Warnsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Warnsi Mohan NetApp Inc. NTAP NTAP US Warnsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		CDW Corp	CDW	CDW US	
Pure Storage PSTG PSTG US Wamsi Mohan UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Concentrix Corporation	CNXC	CNXC US	
UNDERPERFORM DigitalOcean DOCN DOCN US Wamsi Mohan NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		Hewlett-Packard Enterprise	HPE	HPE US	Wamsi Mohan
DigitalOceanDOCNDOCN USWamsi MohanNetApp Inc.NTAPNTAP USWamsi MohanSanmina CorporationSANMSANM USRuplu BhattacharyaVishay Intertechnology, Inc.VSHVSH USRuplu Bhattacharya		Pure Storage	PSTG	PSTG US	Wamsi Mohan
NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH VSH US Ruplu Bhattacharya	UNDERPERFORM				
NetApp Inc. NTAP NTAP US Wamsi Mohan Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH VSH US Ruplu Bhattacharya		DigitalOcean	DOCN	DOCN US	Wamsi Mohan
Sanmina Corporation SANM SANM US Ruplu Bhattacharya Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya		•	NTAP	NTAP US	Wamsi Mohan
Vishay Intertechnology, Inc. VSH VSH US Ruplu Bhattacharya			SANM	SANM US	Ruplu Bhattacharya
			VSH	VSH US	
			VZIO	VZIO US	, ,



IQmethod[™] Measures Definitions

•		
Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 - Tax Rate) + Goodwill Amortization	Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
		Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt +	Sales
,	Other LT Liabilities	

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

Menethod 3*is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

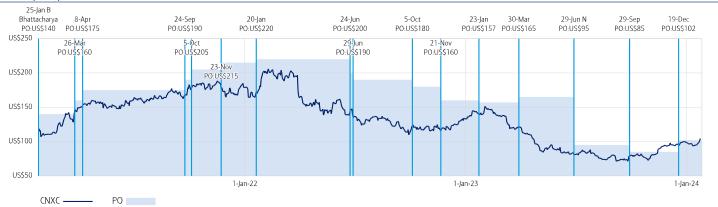
Redatabase is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

IQprofile^{≤M}, **IQ**method^{≤M} are service marks of Bank of America Corporation. **IQ**database® is a registered service mark of Bank of America Corporation.

Disclosures

Important Disclosures

Concentrix (CNXC) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Technology Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	215	53.09%	Buy	111	51.63%
Hold	97	23.95%	Hold	45	46.39%
Sell	93	22.96%	Sell	24	25.81%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Inderperform	N/A	> 20%

R2Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Concentrix.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: Concentrix.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: Concentrix.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: Concentrix.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: Concentrix.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: Concentrix. BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Concentrix.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: Concentrix.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America



Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA), BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Hong Ko (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel) (Israel): Merrill Lynch (Israel): Merr Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rul

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile



and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at BofA ESGMeter methodology. ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of legal proceeding to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public in

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

