

Vertiv

Positive read-across from Super Micro

Maintain Rating: BUY | PO: 60.00 USD | Price: 53.67 USD

Another positive data point for Al-related demand

After market close on 1/18, Super Micro (SMCI; not covered) positively pre-announced its December quarter results. Super Micro builds pre-configured server & storage systems for use in data centers and other applications. Management updated revenue guidance to \$3.60-3.65bn from \$2.7-2.9bn previously. Management cited "strong market and end customer demand" including artificial intelligence (AI) servers. SMCI's offerings are "inside the rack" while Vertiv's are "outside the rack" – e.g., complementary versus competitive. SMCI partners with AMD, Intel, and NVIDIA. We view this as a positive readacross to Vertiv. We maintain our Buy rating and \$60 price objective on Vertiv.

Al seen driving liquid cooling adoption

Al applications typically use graphics processing units (GPUs), such as the NVIDIA Hopper architecture. Al GPUs require 3-4x more power and generate 3-4x more heat than traditional central processing units (CPUs). The additional heat requires incremental liquid cooling solutions. On its September quarter conference call, Super Micro's CEO Charles Liang said, "I anticipate that up to 20% or more of global data centers will transition to liquid-cooled solutions in just a few years." Super Micro offers preconfigured servers featuring cold plates for chips. Clients would connect these to "outside the rack" solutions. We see Vertiv's liquid cooling offerings, including direct-to-chip coolant distribution units, as benefitting from rising Al adoption. For more details, see our Oct. 9th report, "Al and data center infrastructure: sizing the impact and TAM."

Vertiv adding production capacity rapidly

Vertiv has announced plans to double its production capacity for electrical switchgear and busway over 2023-25. This comes on top of a 100+% increase in capacity over 2021-23. In January, Vertiv opened a new manufacturing facility in India for thermal management products for domestic and international markets. This follows the opening of a thermal manufacturing facility in Mexico in 1Q23. At its recent investor day, management raised medium-term capex guidance to 2.0-2.5% of revenue, from an average of 1.6% over 2019-22 (see our Nov. 29th investor day note).

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	0.76	0.53	1.72	2.25	2.71
GAAP EPS	0.33	0.20	0.98	1.86	2.34
EPS Change (YoY)	-7.3%	-30.3%	224.5%	30.8%	20.4%
Consensus EPS (Bloomberg)			1.73	2.19	2.68
DPS	0.01	0.01	0.03	0.10	0.10
Valuation (Dec)					
P/E	70.6x	101.3x	31.2x	23.9x	19.8x
GAAP P/E	162.6x	268.4x	54.8x	28.9x	22.9x
Dividend Yield	0%	0%	0%	0.2%	0.2%
EV / EBITDA*	39.6x	44.6x	21.1x	16.3x	13.8x
Free Cash Flow Yield*	0.6%	-1.3%	3.0%	3.8%	4.6%
* For full definitions of <i>IQ</i> method SM measures, see page 4.					

22 January 2024

Equity

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Stock Data

Price

Price Objective 60.00 USD Date Established 13-Dec-2023 Investment Opinion 11.95 USD - 53.67 USD 52-Week Range Mrkt Val (mn) / Shares Out 20,472 USD / 381.4 Free Float 93.4% Average Daily Value (mn) 238.90 USD BofA Ticker / Exchange VRT / NYS Bloomberg / Reuters VRT US / VRT.N ROF (2023F) 40.4% Net Dbt to Eqty (Dec-2022A) 203.2% 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".

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Refer to important disclosures on page 5 to 7. Analyst Certification on page 3. Price
Objective Basis/Risk on page 3.

Timestamp: 22 January 2024 05:00AM EST

53 67 USD

iQprofile[™] Vertiv

(US\$ Millions)	2021A	2022A	2023E	2024E	20251
Return on Capital Employed	4.4%	2.2%	11.6%	15.4%	18.1%
Return on Equity	26.7%	14.0%	40.4%	40.1%	35.9%
Operating Margin	6.5%	3.9%	12.4%	15.6%	17.1%
Free Cash Flow	126	(264)	623	783	932
iQmethod SM – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	20251
Cash Realization Ratio	0.8x	-0.8x	1.2x	1.1x	1.1>
Asset Replacement Ratio	0.4x	0.4x	0.6x	0.7x	0.8
Tax Rate	43.2%	118.8%	27.4%	30.0%	30.0%
Net Debt-to-Equity Ratio	178.7%	203.2%	125.7%	61.8%	19.7%
Interest Cover	3.6x	1.5x	4.7x	7.4x	10.2
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Sales	4,998	5,692	6,846	7,584	8,453
% Change	14.4%	13.9%	20.3%	10.8%	11.5%
Gross Profit	1,523	1,616	2,353	2,721	3,049
% Change	4.5%	6.1%	45.6%	15.6%	12.1%
EBITDA	592	526	1,113	1,444	1,705
% Change	2.0%	-11.2%	111.7%	29.7%	18.1%
Net Interest & Other Income	(91)	(147)	(180)	(160)	(141
Net Income (Adjusted)	278	200	663	881	1,077
% Change	-2.1%	-27.9%	230.7%	32.9%	22.3%
Free Cash Flow Data (Dec) (US\$ Millions)	2021A	2022A	2023E	2024E	20251
(US\$ Millions) Net Income from Cont Operations (GAAP)	134	(14)	486	715	913
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization	134 227	(14) 302	486 264	715 262	913 259
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital	134 227 (133)	(14) 302 (449)	486 264 97	715 262 (31)	913 259 (63
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge	134 227 (133) NA	(14) 302 (449) NA	486 264 97 NA	715 262 (31) NA	913 259 (63 NA
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net	134 227 (133) NA (17)	(14) 302 (449) NA 8	486 264 97 NA (75)	715 262 (31) NA 27	913 259 (63 NA 29
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure	134 227 (133) NA (17) (85)	(14) 302 (449) NA 8 (111)	486 264 97 NA (75) (150)	715 262 (31) NA 27 (190)	913 259 (63 NA 29 (205
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow	134 227 (133) NA (17) (85)	(14) 302 (449) NA 8 (111) - 264	486 264 97 NA (75) (150) 623	715 262 (31) NA 27 (190) 783	913 259 (63 NA 29 (205 932
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change	134 227 (133) NA (17) (85) 126 -19.1%	(14) 302 (449) NA 8 (111) -264 NM	486 264 97 NA (75) (150) 623 NM	715 262 (31) NA 27 (190) 783 25.8%	913 259 (63 NA 29 (205 932 19.0%
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase	134 227 (133) NA (17) (85) 126 -19.1%	(14) 302 (449) NA 8 (111) -264 NM	486 264 97 NA (75) (150) 623 NM 0	715 262 (31) NA 27 (190) 783 25.8%	913 259 (63 NA 29 (205 932 19.0%
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid	134 227 (133) NA (17) (85) 126 - 19.1% 108 (4)	(14) 302 (449) NA 8 (111) -264 NM 0 (4)	486 264 97 NA (75) (150) 623 NM 0 (10)	715 262 (31) NA 27 (190) 783 25.8% 0 (39)	913 259 (63 NA 29 (205 932 19.0% (40
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt	134 227 (133) NA (17) (85) 126 -19.1%	(14) 302 (449) NA 8 (111) -264 NM	486 264 97 NA (75) (150) 623 NM 0	715 262 (31) NA 27 (190) 783 25.8%	913 259 (63) NA 29 (205) 932 19.0%
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec)	134 227 (133) NA (17) (85) 126 - 19.1% 108 (4) 828	(14) 302 (449) NA 8 (111) -264 NM 0 (4) 219	486 264 97 NA (75) (150) 623 NM 0 (10) (322)	715 262 (31) NA 27 (190) 783 25.8% 0 (39) (772)	913 255 (63, NA 25 (205 932 19.0% (40 (422
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Company Sector

Industrials/Multi-Industry

Company Description

Vertiv is an electrical product manufacturer focused on data centers (70% of revenue) and telecom (20%) end markets. In 2022, Vertiv generated \$5.7bn in revenue. Key product offerings include power & thermal management, IT management, and related services.

Investment Rationale

We view Vertiv as benefitting near-term from a margin recovery, and improving FCF generation. Artificial intelligence adoption within data centers adds incremental demand for Vertiv's thermal management products. Pricing benefits from capacity constraints for data center infrastructure products.

Stock Data

Average Daily Volume 4,557,034

Quarterly Earnings Estimates

	2022	2023
Q1	-0.08A	0.24A
Q2	0.10A	0.46A
Q3	0.23A	0.52A
Q4	0.28A	0.51E



* For full definitions of \emph{iQ} method $^{\text{SM}}$ measures, see page 4.

Price objective basis & risk

Vertiv (VRT)

We base our \$60 price objective on an 14x EV/EBITDA of our 2025 estimates (previously 12x). Our target multiple is in line with the 14x peer average on 2024E. We argue an in line multiple is warranted given above-peers earnings growth offset by below-peer margins.

Downside risks to our price objective are 1) declines in company-owned data centers, 2) inability to execute on cost savings plans, 3) pricing deterioration due to competition, and 4) disruptions due to supply chain or manufacturing execution.

Analyst Certification

I, Andrew Obin, 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 - Multi-Industrials/Engineering and Construction Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	APi Group	APG	APG US	Andrew Obin
	AspenTech	AZPN	AZPN US	Andrew Obin
	Atmus Filtration	ATMU	ATMU US	Andrew Obin
	Dover Corp	DOV	DOV US	Andrew Obin
	Eaton Corp PLC	ETN	ETN US	Andrew Obin
	Emerson Electric Co	EMR	EMR US	Andrew Obin
	Flowserve	FLS	FLS US	Andrew Obin
	General Electric Company	GE	GE US	Andrew Obin
	Honeywell International Inc.	HON	HON US	Andrew Obin
	ITT Inc.	ITT	ITT US	Andrew Obin
	Montrose Environmental Group, Inc.	MEG	MEG US	Andrew Obin
	Parker Hannifin Corporation	PH	PH US	Andrew Obin
	PTC Inc.	PTC	PTC US	Andrew Obin
	Rush	RUSHA	RUSHA US	Andrew Obin
	Vertiv	VRT	VRT US	Andrew Obin
	Vontier	VNT	VNT US	Andrew Obin
NEUTRAL				
	3M Company	MMM	MMM US	Andrew Obin
	AMETEK Inc	AME	AME US	Andrew Obin
	Fortive Corporation	FTV	FTV US	Andrew Obin
	Johnson Controls International PLC	JCI	JCI US	Andrew Obin
	Pentair plc	PNR	PNR US	Andrew Obin
	Rockwell	ROK	ROK US	Andrew Obin
	Trane Technologies PLC	TT	TT US	Andrew Obin
UNDERPERFORM	Ü			
	Allegion	ALLE	ALLE US	Andrew Obin
	Carrier Global Corp.	CARR	CARR US	Andrew Obin
	Core & Main	CNM	CNM US	Andrew Obin
	Illinois Tool Works	ITW	ITW US	Andrew Obin
	John Bean Technologies	JBT	JBT US	Andrew Obin
	, Keysight	KEYS	KEYS US	David Ridley-Lane, CFA



*IQ*method[™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) \times (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 + Other LT Liabilities	Sales

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.

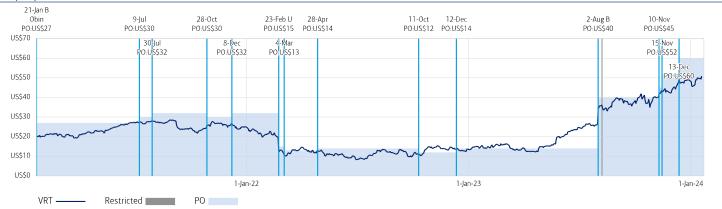
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Vertiv (VRT) Price Chart



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: Industrials/Multi-Industry Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	45	50.56%	Buy	25	55.56%
Hold	26	29.21%	Hold	13	50.00%
Sell	18	20.22%	Sell	7	38.89%

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%

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

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
Underperform	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.

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