DEFENSE & SPACE QUARTERLY MARKET UPDATE

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Industry Expertise: Illustrative Transactions



Illustrative Equity Research Coverage*



*The public companies displayed are actively covered by Raymond James Equity Research analysts

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Defense & Space Industry Update

M&A Activity Summary

- Defense & Space M&A activity declined quarter-over-quarter for Q1 2022, largely driven by a heightened level of M&A activity in Q4 2021 as a result of sellers attempting to finalize deals by year-end. However, year-over-year M&A activity for Q1 2022 in the Defense & Space sector grew by ~25% compared to Q1 2021.
- Large strategic acquirers as well as financial buyers remained acquisitive in the face of increased turbulence in public markets. Kratos, SES, and BAE Systems all made strategic acquisitions throughout the quarter, signaling a desire for M&A that is expected to continue throughout the year. Additionally, financial buyers' interest in M&A will also drive elevated deal activity due to the need to deploy substantial existing dry powder.
- On March 27th, BAE Systems completed the acquisition of Bohemia Interactive Simulations, a portfolio company of The Riverside Company. The combination of BAE Systems and Bohemia, a provider of simulation technologies and integrated training solutions for military and civilian organizations around the globe, better positions BAE to meet customers' evolving needs in the rapidly growing market for global military training.

Industry News

- On March 28th, the President's FY 2023 Budget Request was released, calling for a total of \$813.0 billion in defense spending. The Department of Defense ("DoD") was allocated \$773.0 billion in proposed funding, a \$30.7 billion increase from the FY 2022 enacted amount. Within the proposal, innovation and modernization was a key theme, with \$130.1 billion allocated to programs that attempt to match and exceed the technological achievements of near-peer adversaries like Russia and China.
- On February 24th, the Russian military launched a multi-pronged offensive attack on Ukraine after months of build-up and military operations along the Russia-Ukraine border. Days later, U.S. Secretary of State, Antony Blinken, announced the authorization of \$350 million in lethal military assistance, including anti-armor and anti-aircraft systems, while the European Union stated that it would purchase ~\$500 million in lethal assistance and an additional ~\$50 million in non-lethal supplies to assist Ukrainian defense efforts.

Recent Defense & Space Transaction Activity⁽¹⁾



Recent, Representative M&A Transactions⁽²⁾



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Spotlight: Signal Jamming

The ongoing conflict in Ukraine highlights the growing importance for the U.S. and its allies to bolster signal jamming capabilities as the era of peer and near-peer conflicts within contested and denied military environments has emerged

Signal Jamming Types and Military Use Cases

Use Cases:

SATCOM &

Command, Control, and Communication

Collect, disrupt, deny, neutralize, or deceive wireless devices, satellites, and military radios transmitting communication signals, intelligence data, and military operations

Wireless Comms & Downlinks Radar, Positioning, and Navigation

Locate, interfere, falsify, disrupt, or damage military radars, satellites, and vehicles from locating opposition forces and employing location data for navigation

Use Cases: ₩D G ans Satellite Navigations



Data Transport 3G, 4G & 5G

Signals

Precision-Guided Force Tracking & Surveillance Munitions

 $\mathcal{O}_{\mathcal{P}}$



On March 22nd, 2022, Ukraine announced the capture of a

Russian Capabilities Observed in Ukraine

Russian Krasukha-4 electronic system believed to track NATO aircraft and designed to detect and jam large adversarial radars



On March 27th, 2022, Ukraine announced the capture of a Russian Barnaul-T platform equipped with advanced radar, communication, and data transport modules that enable effective command and control of multi-domain airborne assets

Reports indicate that Ukraine has supplied captured Russian assets to NATO for further examination to gain a better understanding of Russian capabilities and determine gaps in NATO defense technology

Select United States Signal Jamming Programs and Initiatives to Combat Peer and Near-Peer Adversaries



(Om)

Terrestrial Layer System ("TLS") is a groundbased tactical electronic system mounted to a Stryker vehicle to defend against near-peer electromagnetic threats and deny, degrade, disrupt, or otherwise manipulate adversarial electronic systems

Program News and Funding Update:



LOCKHEED MARTIN

Funding to finalize the prototype system that will be deployed for initial procurement

MFEW – AL

The Multi-Function Electronic Warfare – Air Large ("MFEW – AL") program is intended to offer a suite of powerful, sophisticated airborne sensors and jammers via a pod for the MQ-1C Gray Eagle drone to jam cell phone, satellite, and GPS signals

Program News and Funding Update:



LOCKHEED MARTIN Nov. 2020

Contract to finalize prototype development, program delays have pushed initial procurement past 2023

Next Generation Jammer

The Next Generation Jammer program will upgrade U.S. Navy EA-18G Growlers with an advanced airborne electronic attack system that leverages electronically scanned array technology to disrupt, deny, and degrade enemy air defense and ground communication systems

Program News and Funding Update:



Mr Raytheon Technologies

Additional funding (on top of ~\$2B in awards for prototype development) set-aside for initial system procurement

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Sources: Business Insider; Breaking Defense, EMEA Tribune, ARMY Technology, DACIS

Public Defense & Space Market Performance

Market	 Over the last twelve months, the three indexes have all trended positively, with the Technology index outperforming the S&P 500 over the period
Commentary	• All three indexes rebounded robustly from the March 2022 low, with the conflict in Ukraine driving investor demand for companies operating within the public Defense & Space market

LTM Defense & Space Index Performance



Source: Capital IQ; Data as of 3/31/2022 Note: Companies included are those tracked internally by Raymond James – individual assets disclosed on next page

Publicly Traded Defense & Space Companies

	(\$ in millions except for stock price)															
	Market Data					Financial Performance Valuation Multiples LTM TEV / LTM				Valuation MultiplesValuation MultiplesTEV / CY 2022 (P)TEV / CY 2023 (P)						
	Company Name	Ticker	Price at 3/31/2022	% of 52-Week High	Equity Value	Enterprise Value	Total Sales	EBITDA	EBITDA Margin	Debt / EBITDA	Total Sales	EBITDA	Total Sales	EBITDA	Total Sales	EBITDA
Solutions Technology	AeroVironment, Inc.	NasdaqGS:AVAV	\$94.14	74.3%	\$2,328	\$2,460	\$449	\$60	13.4%	3.2x	N.M.	N.M.	5.0x	N.M.	4.5x	N.M.
	Kratos Defense & Security Solutions, Inc.	NasdaqGS:KTOS	\$20.48	67.6%	\$2,553	\$2,602	\$812	\$55	6.8%	5.7x	3.2x	N.M.	2.9x	29.6x	2.6x	23.5x
	Mercury Systems, Inc.	NasdaqGS:MRCY	\$64.45	81.1%	\$3,658	\$4,079	\$953	\$163	17.1%	3.0x	4.3x	25.0x	3.9x	16.8x	3.6x	15.9x
	Teledyne Technologies Incorporated	NYSE:TDY	\$472.63	98.9%	\$22,306	\$26,098	\$4,614	\$1,034	22.4%	4.0x	N.M.	25.2x	4.7x	19.2x	4.5x	18.1x
	(1) Ultra Electronics Holdings plc	LSE:ULE	\$43.69	97.2%	\$3,120	\$3,173	\$1,152	\$199	17.3%	1.2x	2.8x	16.0x	2.7x	14.9x	2.5x	13.8x
	Viasat, Inc.	NasdaqGS:VSAT	\$48.80	71.0%	\$3,632	\$6,054	\$2,682	\$494	18.4%	4.4x	2.3x	12.3x	2.0x	8.9x	1.9x	8.0x
	Median:			77.7%	\$3,376	\$3,626	\$1,052	\$181	17.2%	3.6x	3.0x	20.5x	3.4x	16.8x	3.1x	15.9x
	Average:			81.7%	\$6,266	\$7,411	\$1,777	\$334	15.9%	3.6x	3.1x	19.6x	3.5x	17.9x	3.3x	15.8x
	Booz Allen Hamilton Holding Corporation	NYSE:BAH	\$87.84	96.5%	\$11,705	\$14,214	\$8,105	\$923	11.4%	3.1x	1.8x	15.4x	1.6x	15.0x	1.5x	13.7x
	CACI International Inc	NYSE:CACI	\$301.26	96.1%	\$7,051	\$9,408	\$6,093	\$647	10.6%	3.3x	1.5x	14.5x	1.4x	13.3x	1.4x	12.3x
	Jacobs Engineering Group Inc.	NYSE:J	\$137.81	92.1%	\$17,807	\$21,233	\$14,091	\$1,274	9.0%	2.8x	1.5x	16.7x	1.4x	14.6x	1.3x	13.0x
	Leidos Holdings, Inc.	NYSE:LDOS	\$108.02	98.5%	\$14,728	\$19,912	\$13,737	\$1,510	11.0%	3.3x	1.4x	13.2x	1.4x	13.6x	1.3x	12.8x
	ManTech International Corporation	NasdaqGS:MANT	\$86.19	93.7%	\$3,518	\$3,861	\$2,554	\$264	10.3%	1.3x	1.5x	14.6x	1.5x	15.1x	1.4x	14.4x
	Parsons Corporation	NYSE:PSN	\$38.70	86.0%	\$4,012	\$4,507	\$3,661	\$310	8.5%	2.1x	1.2x	14.5x	1.2x	13.6x	1.1x	12.5x
	Science Applications International Corporation	NYSE:SAIC	\$92.17	95.5%	\$5,166	\$7,855	\$7,394	\$699	9.5%	3.4x	1.1x	11.2x	1.1x	11.8x	1.0x	11.5x
	Median:			95.5%	\$7,051	\$9,408	\$7,394	\$699	10.3%	3.1x	1.5x	14.5x	1.4x	13.6x	1.3x	12.8x
	Average:			94.1%	\$9,141	\$11,570	\$7,948	\$804	10.0%	2.8x	1.4x	14.3x	1.4x	13.9x	1.3x	12.9x
	BAE Systems plc	LSE:BA.	\$9.43	93.6%	\$29,665	\$34,694	\$26,433	\$3,011	11.4%	2.7x	1.3x	11.5x	1.2x	8.8x	1.2x	8.5x
E	The Boeing Company	NYSE:BA	\$191.50	73.5%	\$113,059	\$156,609	\$62,286	\$1,457	2.3%	N.M.	2.5x	N.M.	2.0x	19.4x	1.7x	14.8x
tfo	General Dynamics Corporation	NYSE:GD	\$241.18	94.6%	\$66,953	\$78,525	\$38,469	\$5,271	13.7%	2.3x	2.0x	14.9x	2.0x	15.2x	1.9x	13.8x
Pla	Honeywell International Inc.	NasdaqGS:HON	\$194.58	82.1%	\$133,381	\$143,169	\$34,392	\$8,696	25.3%	2.3x	4.2x	16.5x	4.0x	15.4x	3.7x	14.3x
Multi-Platform	L3Harris Technologies, Inc.	NYSE:LHX	\$248.47	88.8%	\$47,970	\$55,073	\$17,814	\$3,637	20.4%	2.1x	3.1x	15.1x	3.1x	14.5x	3.0x	13.8x
Mu	Lockheed Martin Corporation	NYSE:LMT	\$441.40	92.0%	\$120,205	\$129,703	\$67,044	\$9,010	13.4%	1.4x	1.9x	14.4x	2.0x	12.9x	1.9x	12.7x
	Northrop Grumman Corporation	NYSE:NOC	\$447.22	91.1%	\$69,812	\$80,521	\$35,667	\$8,734	24.5%	1.6x	2.3x	9.2x	2.2x	16.6x	2.1x	15.8x
	Raytheon Technologies Corporation	NYSE:RTX	\$99.07	94.9%	\$146,928	\$174,280	\$64,388	\$11,374	17.7%	2.8x	2.7x	15.3x	2.5x	13.9x	2.3x	12.2x
	Median:			91.5%	\$91,435	\$105,112	\$37,068	\$6,984	15.7%	2.3x	2.4x	14.9x	2.1x	14.8x	2.0x	13.8x
	Average:			88.8%	\$90,996	\$106,572	\$43,312	\$6,399	16.1%	2.2x	2.5x	13.9x	2.4x	14.6x	2.2x	13.2x

(1) On 8/16/2021, Cobham Ltd., a portfolio company of Advent International Corp, announced that it had agreed on the terms and conditions to acquire Ultra Electronics Holdings plc for \$3.55 billion. Source: Capital IQ; Data as of 3/31/2022

Financial projections are sourced from Capital IQ consensus estimates; foreign traded companies are listed in U.S. dollars at 12/31/2021 spot exchange rate; TEV / EBITDA valuation multiples less than 0.0x or greater than 30.0x and TEV / Total Sales multiples less than 0.0x or greater than 5.0x are considered not material ("N.M."); Debt / LTM EBITDA figures represent total debt divided by LTM EBITDA, which includes a lease adjustment

Defense & Space: Technology Benchmarking





Capital Structure



Total Debt to LTM EBITDA Ratio



Source: Capital IQ; Data as of 3/31/2022

Defense & Space: Solutions Benchmarking



Capital Structure





Total Debt to LTM EBITDA Ratio



Source: Capital IQ; Data as of 3/31/2022

Defense & Space: Multi-Platform Benchmarking



100% 80% 65% 78% 60% 81% 84% 83% 86% 87% 90% 40% 20% 35% 22% **19**% 17% 16% 13% 14% 10% LOCKNEED BOEING Raytheon Technologies BAE SYSTEMS Equity Debt

30% 25% 24% 25% 20% 20% 18% 14% 13% 15% 11% 10% 5% 2% LOCKHESO BAE SYSTEMS

LTM EBITDA Margin

Total Debt to LTM EBITDA Ratio⁽²⁾



Source: Capital IQ; Data as of 3/31/2022

(1) Boeing excluded due to its historical financial results leading to outlying revenue growth figures

(2) Boeing excluded due to non-material financial data

Recent Defense & Space Transactions



Recent Defense & Space Transactions



Recent Defense & Space Transactions



Recently Awarded Defense & Space Contracts

Date	Customer(s)	Winning Bidder(s)	Amount (\$MM)	Description
2/28/2022	U.S Defense Information Technology Contracting Organization ("DITCO")	Leidos, Inc.	\$11,054.0	DITCO contracts for Defense Enclave Services ("DES")
2/28/2022	U.S. Naval Information Warfare Systems Command, Headquarters ("NAVWARSYSCOM")	L3Harris Technologies, Inc.	\$3,690.0	NAVWARSYSCOM contracts for portable radios and ancillary parts
3/31/2022	U.S. Army Contracting Command – Aberdeen Proving Ground ("ACC – APG")	Lockheed Martin Corporation	\$3,268.0	Army ACC-APG contracts for full-rate production lot 2 of the AN / TPQ-53 counter-fire target acquisition radar system
3/31/2022	U.S. Naval Sea Systems Command ("NAVSEA")	Raytheon Technologies Corporation	\$3,161.0	NAVSEA contracts for AN / SPY-6(V) family of radars and associated hardware
1/3/2022	U.S. Air Force SMC / PEO Space Systems, MILSATCOM Systems Directorate ("SMC/MC")	The Boeing Company	\$2,592.0	USAF SMC / MC contracts for Protected Tactical Satellite Communications ("PTS") hosted payload
2/28/2022	U.S. Space Development Agency ("SDA")	Lockheed Martin Corporation; Northrop Grumman Systems Corporation; York Space Systems, LLC	\$1,784.0	SDA contracts for the SDA Tranche 1 Transport Layer ("T1TL")
3/31/2022	U.S. Missile Defense Agency ("MDA")	Lockheed Martin Corporation	\$1,424.0	MDA mods contract for Terminal High-Altitude Area Defense ("THAAD") interceptors and associated one- shot devices
1/19/2022	U.S. SOCOM Special Operations Forces ("USSOCOM SOF")	Anduril Industries, Inc.	\$967.6	USSOCOM SOF contracts for counter-unmanned systems integration partner
3/16/2022	NASA Goddard Space Flight Center	KBR Wyle Services, LLC	\$640.0	NASA Goddard contracts for Ground Systems and Mission Operations 3 ("GSMO 3")

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