

WiSA Technologies, Inc.

Q1 about inline and tempered 2023 outlook maintained. However, announced potential acquisition of Comhear should provide strong growth prospects. Lowering P/T to \$10.

Q1 about inline: WiSA recently (on May 16) reported its Q1 2023 (ending March) results. Revenue was \$0.5 million (-17% y-o-y), compared with our and consensus estimates of \$0.6 - 0.8 million. EPS was \$(0.53), compared with our estimate of \$(2.17) and consensus of \$(3.36). There was no Q1 guidance.

Demand issues: The company again (like in 2022) had weak Q1 revenues (-17% y-o-y) as consumer demand for consumer electronics have slowed significantly (since early 2022).

Announces potential acquisition of Comhear: On May 15, WiSA announced that it has signed a non-binding letter of intent to acquire Comhear, Inc., a developer of Al-enabled adaptive audio technology. The transaction is expected to close in Q3 2023 and be accretive in Q4 2023. Exact terms of the deal are being finalized and is expected to be done by June 2023. The company expects the combined company's 2024 revenue to be \$10 - 15 million.

Maintained 2023 outlook: The company did not provide specific 2023 guidance but expects 2023 revenue to grow from 2022's.

Adjusting 2023 estimates: We are adjusting our 2023 estimates for revenue to \$3.5 million, from \$5.0 million, and for EPS to \$(3.29) from \$(5.54). Our estimates do not include any potential contributions from Comhear.

35 million soundbar opportunity: We believe consumers' interest in wireless immersive sound continues to grow thereby driving increased products by consumer electronic manufacturers. 35 million soundbar units are estimated to have shipped worldwide in 2020. Given WiSA technology superiority over soundbar, we believe WiSA should gain market share. If WiSA can get just a 5% market share, that would imply a \$25 million market opportunity for WiSA.

Products ramping up: Over 25 customers (brands) using WiSA's technology shipped products into the market in 2022 and this is expected to significantly increase over the next several years.

New products DS and E: WiSA DS technology, using a 2.4 GHz IoT Wi-Fi module from Espressif, is performing strongly in the testing and evaluation cycles at its target customers. The company is also sampling WiSA E's technology using its IP on 5 GHz Wi-Fi chips.

Early stage, but large sales opportunity: We acknowledge that WiSA is still at an early stage in its product commercialization and revenue generation is still low and volatile, but believe key financial and product milestones and sales and design wins in the next year should be positive catalysts for the stock.

Positive high risks versus rewards: We believe that the current valuation for WiSA has already factored in many of its risks (principally its ability to grow sales) but is under valuing its overall growth prospects and product portfolio, resulting in a positive risk versus reward scenario for an investment in WiSA.

Capital raise: WiSA had \$5 million in cash and \$1 million in debt at the end of Q1. In the current Q2, the company raised ~\$1 million in stock. We believe WiSA has enough cash into 2024.

Reverse stock split: The company effected a 1:100 reverse stock split in January 2023.

Current valuation attractive: We are maintaining our BUY rating, but lowering our 12-month price target to \$10 from \$20, which is based on a NPV analysis. We believe this valuation appropriately balances out the company's high risks with its high growth prospects and large upside opportunities.

Company Description

Based in Beaverton, OR, WiSA Technologies (f.k.a. Summit Wireless Technologies) sells audio chips, modules, and license IP to enable WiSA Association interoperability standards to deliver immersive wireless sound.

United States Technology

May 19, 2023

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Stock Data

Exchange:	NasdaqCM
52-week Range:	\$0.95 - 87.00
Shares Outstanding (million):	3.8
Market cap (\$million):	\$5
EV (\$million):	\$1
Debt (\$million):	\$1
Cash (\$million):	\$5
Avg. Daily Trading Vol. (\$million):	\$3
Float (million shares):	3
Short Interest (million shares):	0.2
Dividend, annual (yield):	\$0 (NA%)

Revenues (US\$ million)

	2023E (Cur.)	2023E (Old)	2024E (Cur.)	2024E (Old)
Q1 Mar	0.5A	0.6E	0.9E	
Q2 Jun	0.8E	0.9E	1.6E	1.5E
Q3 Sep	0.9E	1.6E	2.3E	2.6E
Q4 Dec	1.3E	1.9E	3.2E	3.0E
Total	3.5E	5.0E	8.0E	
EV/Revs	0.3x		0.1x	

Earnings per Share (pro forma)

	2023E	2023E	2024E	2024E
	(Cur.)	(Old)	(Cur.)	(Old)
Q1 Mar	(0.53)A	(2.17)E	(1.03)E	(1.27)E
Q2 Jun	(0.90)E	(1.31)E	(0.98)E	(1.20)E
Q3 Sep	(0.81)E	(1.13)E	(0.80)E	(1.15)E
Q4 Dec	(0.89)E	(1.21)E	(0.94)E	(1.09)E
Total	(3.29)E	(5.54)E	(3.75)E	(4.70)E
P/E	N/A		N/A	

^{*}Reflects a 1:100 reverse stock split in January 2023

Important Disclosures

Ascendiant Capital Markets LLC seeks to do business with companies covered by its research team. Consequently, 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 an investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report, beginning on page 16.

COMPANY UPDATE

Rating: BUY

Ticker: WISA

Price: \$1.30 (intraday)

Target: \$10.00 (from \$20)



Exhibit 1: WiSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.) Overview

Summit Wireless and WiSA Association now under WiSA Technologies, Inc. umbrella



WiSA Association: Building a Standard



The WiSA Association has 70+ member brands implementing worldwide standards for high definition, multi-channel, low latency audio using our WiSA global interoperability standard



25+ Brands Shipping Summit Wireless' Technology







Exhibit 2: WiSA Products

Expanding the Ecosystem: 7 Storefronts





Source: Company reports.

Exhibit 3: WiSA's Market Opportunity

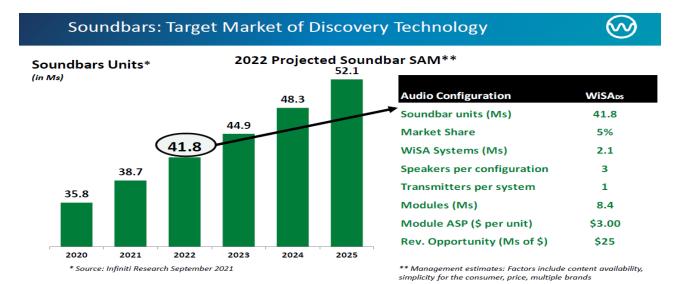




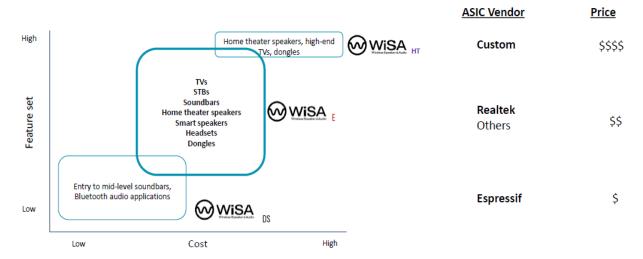
Exhibit 4: WiSA's Products

WiSA Product Families



WiSA Technologies has a 10-year history of providing feature-rich wireless spatial technology for the premium market.

WiSA Technologies' recent product and partnership announcements focus on bringing the same technical know-how to build and market wireless spatial technology for mass-market products.



Bringing Spatial Audio to the Mass Markets



WiSA's vision is to become the spatial audio standard across the audio marketplace and become natively embedded in OEM SoCs



1B Unit TAM



Exhibit 5: WiSA Wave



WiSA Wave and Marketing



- 2022 WiSA Wave results:
 - 1M+ visitors, 2.1M page views
- Mid-year 2022 marketing pivoted from WiSA to WiSA Certified with Platin Audio products
 - Increased consumer awareness of WiSA as measured through organic visitors
 - Streamlined buying process of Platin Audio speakers
- In 2023, tuning marketing messages to everything Atmos to support WiSA's technology strength in delivering more audio channels than other solutions: For example



Platin's updated Monaco 5.1.2 home theater system adds Dolby Atmos to its WiSA-powered offering to create an affordable yet impressive home cinema experience

Coming soon Platin Audio Soundbar with 5.1.4 enabled by WiSA DS



Exhibit 6: WiSA Future Roadmap

Beyond Premium Audio: Driving 2022 Growth SEMMUT ⊗WISA

 First Gen Technology established WiSA as multi-channel wireless technology brand with a complete ecosystem of TVs/transmitters and speakers

- Next Gen extends WiSA to all smart devices with massive TAM
- Immersive Sound Expands to Wi-Fi enabled smart devices:
 - Smart TVs
 - Smart Speakers
 - Smart Phones
 - Tablets
 - · Gaming PCs and Consoles
 - IoT Devices
 - Headphones



Reaching Broader Consumer Markets with Rapidly Dropping WiSA Transmission Costs



Product	Host Device	Retail MSRP	TV/Soundbar Integration Cost	Home Theater in a Box System
Axiim Q AV Reciever	All TVs/Set top Boxes	\$1,199		
Axiim Link	Xbox and WiSA Ready TV	\$229		\$999
WiSA SoundSend - Drops cost of Xbox support	All TVs	\$179		\$899
WiSA SoundSend USB* - Drops Dolby & HDMI royalties - Lowers tariffs	WiSA Ready TVs/Devices	\$99-\$119		\$799
WiSA TX Module			\$13-\$16	
Next Generation Module	TVs, Soundbars, Projectors		80% Reduction	\$699-\$749

Moving Towards Lower Costs and Ubiquity

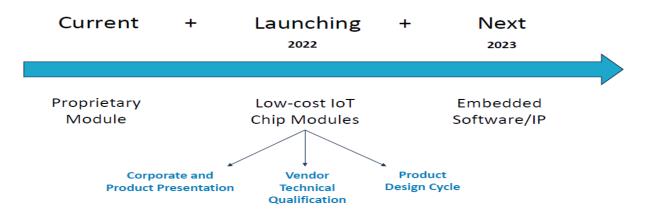




Exhibit 7: WiSA Business Model and Potential Revenue

Overview of Business

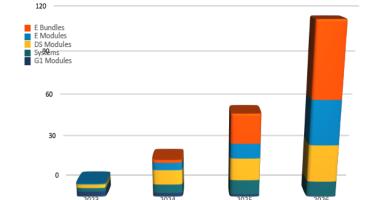


- WiSA E is a compelling technology advancement
 - · Strong interest in Beta testing and sampling
 - Still on track to release to production in Q3
- WiSA DS is being specified for design and building of SB
 - First production to start in Q3
 - First product in the US market will be Platin Audio's 5.1.4 soundbar
- WiSA Marketing driving immersive audio messaging using Dolby Atmos with WiSA Certified upfiring speakers
 - Platin's updated Monaco 5.1.2 home theater system adds Dolby Atmos to its WiSApowered offering to create an affordable yet impressive home cinema experienc

Revenue Opportunity: 2023 - 2026







Currently in 2022

- Continued HT module and system sales based on design activity through 2023 and consumer acceptance of wireless speakers
- · First revenue DS module (soundbars)

2023 Revenue Drivers

- DS module revenue growth based on soundbar and TV designs
- First revenue WiSA E modules in Platin Speakers

2024 Revenue Drivers

- Growth of DS modules and E modules
- First revenue E license with RX modules + bundles

2025 Revenue Drivers

- · Continued growth in DS and E modules
- Strong growth of E license + bundles

2026 Revenue Drivers

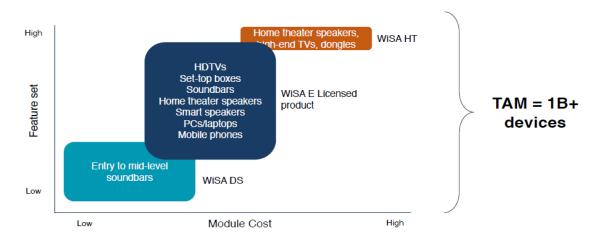
- · Continued growth in module sales
- Use of Projections and Illustrations: This page contains certain [financial forecasts] and illustrations. Neither [WISA's] independent auditors nor any other professional data from [Galactic Grant Control of the Cont



Exhibit 8: WiSA Product Roadmap and Opportunities

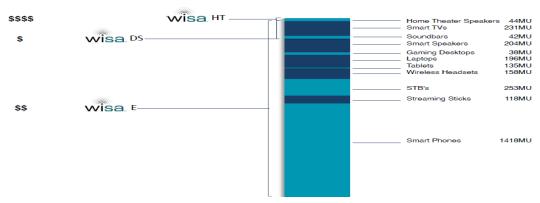
Licensing Enables Broad Market Expansion





WiSA DS and E Growth Opportunities





WiSA DS – Customer Response

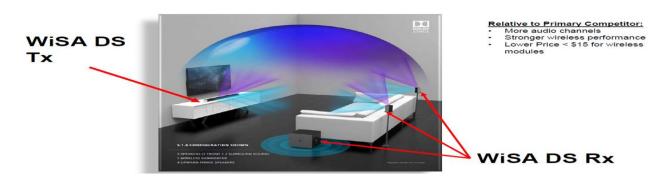
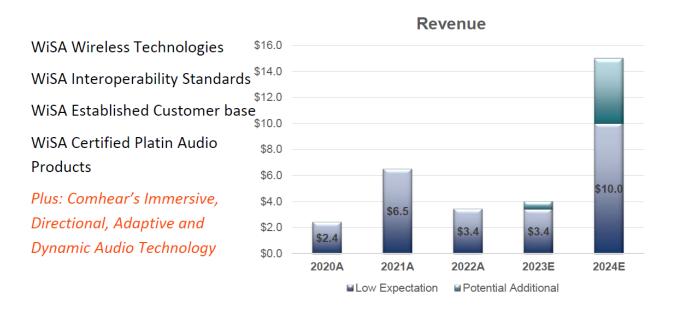




Exhibit 9: WiSA's Outlook (as of May 2023)

Building the Immersive Audio Future





Overview of Business



- Consumer electronics industry is still in a slump from overbuilding and weak consumer demand
 - There will be price erosion and margin compression through the summer in the industry
- Operating Expenses decreased ~\$750K from Q4 to Q1
- Expect Revenue growth YOY for full year 2023



Exhibit 10: Acquisition of Comhear (announced May 2023, expected to close in Q3 2023)



Technology



Comhear's Al-enabled adaptive audio technology is able to capture a user's environmental room dynamics (number of people, objects, movement) and using its proprietary adaptive filtering and beam steering system, process this data in real-time in order to make adjustments to the audio output.

loT sensors Captures a user's environmental data like kinetics and room dynamics (i.e. number of people in the room, room size, location of couch, etc.) Proprietary adaptive filtering technology Uses Comhear's algorithms to process loT sensory data, informing real-time adjustments to the audio output. ### Beam steering system Controls directivity of the loudspeaker array, and the transmission of customized audio output.

MyBeam ™Powered SOLUTIONS

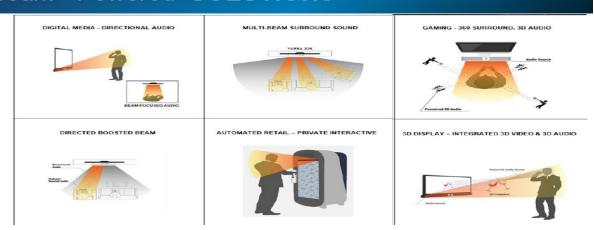




Exhibit 11: Highlights of WiSA and Comhear Acquisition (announced May 2023, expected to close in Q3 2023)

Key Highlights of WiSA and Comhear combined

- Strong IP position and significant patent coverage for immersive audio, with highlydifferentiated multichannel wireless audio technology and existing implementations in premium audio brands
- World-class premium technology ported to low-cost IoT chips to address mass market audio systems with software roadmap to address TAM of over 2 billion units
- Establishment and management of the Wireless Speaker and Audio Association with interoperability specification, testing, and compliance standard
- 4 30+ brands have designed WiSA technologies into their products, with expanded opportunities from Comhear's products and target markets
- 5 Strong revenue growth from combined company for modules sales, audio systems sales, and licensing

Source: Company reports.

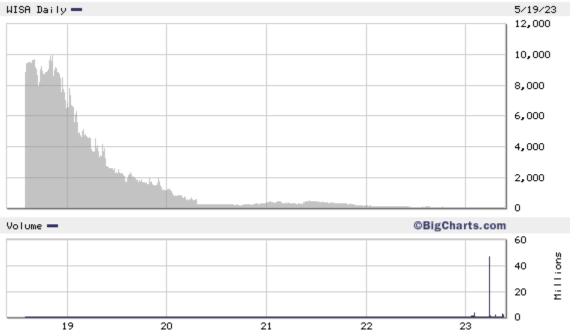
Exhibit 12: Q1 2023 and Recent Highlights

Q1 2023 and Recent Highlights

- At CES 2023 in January, demonstrated:
 - WiSA's multichannel audio software IP running on an Android TV SoC Platform
 - WiSA E 5GHz multichannel audio software running on a Realtek wireless chip
 - A wireless 5.1.4 Dolby Atmos soundbar system platform powered by WiSA DS.
- Mesanovic's latest studio monitor speaker earned WiSA HT Interoperability Certification.
- Pylon Audio's Jasper loudspeakers line earned WiSA HT Interoperability Certification.
- Demonstrated new WiSA E technology designed to power next-generation of immersive audio products for TVs, providing high-quality multichannel audio transmission to as many as 8 (moving to 10) discrete speakers without the need of an HDMI cable connected to a soundbar.







^{*}Reflects a 1:100 reverse stock split in January 2023

Source: https://bigcharts.marketwatch.com/

	Revenue (mils)			EPS	
	<u>2023E</u>	<u>2024E</u>		<u>2023E</u>	<u>2024E</u>
Q1 Mar	\$0.8E		Q1 Mar	\$(3.36)E	
Q2 Jun	\$1.2E		Q2 Jun	\$(3.02)E	
Q3 Sep			Q3 Sep		
Q4 Dec			Q4 Dec		
Total	\$5.9E	\$8.5E	Total	\$(11.78)E	\$(5.34E

^{*}Quarterly estimates may not add to annual estimates due to variations in contributing estimates and rounding.

Source: Company report, Refinitiv, and Ascendiant Capital Markets estimates

^{*}Reflects a 1:100 reverse stock split in January 2023

WISA: WiSA Technologies, Inc.



FINANCIAL MODEL

WiSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.)

WiSA Technologies, I	ViSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.)																			
Income Statement (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023	Mar-24	Jun-24	Sep-24	Dec-24	2024
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2E	Q3E	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-E
Total Revenue	1.2	1.6	1.8	2.0	6.5	0.6	0.9	0.9	0.9	3.4	0.5	0.8	0.9	1.3	3.5	0.9	1.6	2.3	3.2	8.0
Cost of Revenues	0.9	<u>1.1</u>	1.3	1.4	4.7	0.5	0.8	0.8	0.9	3.0	1.7	0.6	0.7	0.9	3.9	0.7	1.1	1.7	2.2	5.7
Gross Profit	0.3	0.5	0.5	0.6	1.9	0.1	0.2	0.1	0.0	0.4	(1.3)	0.2	0.3	0.4	(0.4)	0.2	0.4	0.6	1.0	2.3
Research and development	1.2	1.3	1.3	1.4	5.2	1.5	1.9	1.9	1.8	7.1	1.9	1.2	1.4	1.3	5.8	1.4	1.6	1.3	1.6	5.8
Sales and marketing	0.9	1.0	1.0	1.3	4.1	1.3	1.3	1.5	2.0	6.1	1.3	1.2	0.9	1.9	5.3	1.4	1.6	1.3	1.6	5.8
General and administrative Restructuring and other	1.0	1.0	1.1	1.0	4.0 0.0	1.1	1.1	1.4	1.5	5.2 0.0	1.4	1.2	0.9	0.6	4.1 0.0	1.4	1.1	1.3	1.6	5.4 0.0
Total operating expenses	3.0	3.3	3.4	3.7	13.4	4.0	4.3	4.9	5.3	18.4	4.5	3.5	3.3	3.8	15.2	4.2	4.2	3.8	4.8	17.1
Operating income (loss)	(2.7)	(2.8)	(2.9)	(3.1)	(11.5)	(3.9)	(4.1)	(4.7)	(5.3)	(18.0)	(5.8)	(3.3)	(3.0)	(3.5)	(15.6)	(4.0)	(3.8)	(3.1)	(3.8)	(14.8)
Interest income (expense)	(0.0)	(0.0)	(0.0)	0.0	(0.0)	(0.0)		(0.2)	(0.7)	(0.9)	(0.7)	(0.0)	0.0	0.0	(0.7)	0.0	0.0	0.0	0.0	0.0
Other income (expense)	(0.6)	(1.8)	0.9	(0.0)	(1.5)	(0.0)	(0.0)	0.3	2.5	2.8	5.6	(0.1)	(0.1)	0.0	5.4	(0.1)	(0.1)	(0.1)	0.0	(0.3)
Income before income taxes	(3.3)	(4.6)	(2.1)	(3.1)	(13.0)	(3.9)	(4.1)	(4.6)	(3.5)	(16.1)	(0.9)	(3.4)	(3.1)	(3.5)	(10.9)	(4.1)	(3.9)	(3.2)	(3.8)	(15.1)
Income taxes	(0.0)	0.0 (4.6)	(0.4)	(3.1)	0.0	(0.0)	0.0 (4.1)	(4.0)	(0.5)	0.0 (16.2)	(0.0)	0.0	0.0	0.0 (3.5)	0.0 (10.9)	0.0 (4.1)	0.0	0.0	0.0	0.0
Net income (loss)	(3.3)	(4.6)	(2.1)	(3.1)	(13.0)	(3.9)	(4.1)	(4.6)	(3.5)	(16.2)	(0.9)	(3.4)	(3.1)	(3.5)	(10.9)	(4.1)	(3.9)	(3.2)	(3.8)	(15.1)
Nonrecurring/noncash adjustme Net income (pro forma)	ents (3.3)	(4.6)	(2.1)	(3.1)	<u>0.0</u> (13.0)	(3.9)	(4.1)	(4.6)	(3.5)	<u>0.0</u> (16.2)	(0.9)	(3.4)	(3.1)	(3.5)	0.0 (10.9)	(4.1)	(3.9)	(3.2)	(3.8)	<u>0.0</u> (15.1)
EBITDA																				
Shares, Basic	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	1.7	3.8	3.9	3.9	3.3	4.0	4.0	4.1	4.1	4.0
Shares, Diluted	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	1.7	3.8	3.9	3.9	3.3	4.0	4.0	4.1	4.1	4.0
EPS Basic (Pro forma)	(\$33.19)	(\$42.39)	(\$14.81)	(\$20.46)	(\$105.20)	(\$26.33)	(\$27.34)	(\$30.85)	(\$10.58)	(\$82.89)	(\$0.53)	(\$0.90)	(\$0.81)	(\$0.89)	(\$3.29)	(\$1.03)	(\$0.98)	(\$0.80)	(\$0.94)	(\$3.75)
EPS Diluted (Pro forma)	(\$33.19)	(\$42.39)	(\$14.81)	(\$20.46)	(\$105.20)	(\$26.33)	(\$27.34)	(\$30.85)	(\$10.58)	(\$82.89)	(\$0.53)	(\$0.90)	(\$0.81)	(\$0.89)	(\$3.29)	(\$1.03)	(\$0.98)	(\$0.80)	(\$0.94)	(\$3.75)
Margins																				
Gross margin	25.6%	29.0%	28.0%	30.2%	28.5%	11.0%	19.9%	13.9%	1.6%	11.7%	-267.2%	27.0%	28.0%	30.0%	-11.3%	26.0%	27.0%	28.0%	30.0%	28.4%
Research and development	101.7%	82.5%	73.2%	71.8%	80.0%	271.6%		206.9%		212.3%	403.6%	150.0%	150.0%	100.0%	165.8%	150.0%	100.0%	55.0%	50.0%	72.9%
Sales and marketing	75.8%	61.7%	56.5%	62.7%	63.0%	229.7%	140.2%	164.2%	215.6%	182.5%	275.9%	150.0%	100.0%	150.0%	153.5%	150.0%	100.0%	55.0%	50.0%	72.9%
General and administrative	84.0%	62.5%	59.8%	49.0%	61.4%	198.9%		149.4%		153.2%	290.4%	150.0%		50.0%	118.6%	150.0%	70.0%	55.0%	50.0%	67.1%
Operating margin	-235.9%	-177.7% 0.0%			-176.0%	-689.2%		-506.7%		-536.2%	-1237.1%		-322.0%		-449.2%	-424.0%			-120.0%	-184.6%
Tax rate, GAAP Net margin	0.0%	-291.2%	0.0%	0.0%	0.0% -199.4%	0.0%		0.0%	0.0%	0.0% -480.0%	0.0%	0.0% -437.2%	0.0%	0.0%	0.0% -314.8%	0.0%	0.0% -249.4%	0.0%	0.0% -120.0%	0.0% -188.3%
	207.070	251.270	114.170	100.070	155.470	003.070	404.270	430.270	301.070	400.070	130.470	407.270	332.770	210.070	314.070	404.170	245.470	141.470	120.070	100.070
Y/Y % change Total Revenue	181%	354%	198%	93%	172%	-51%	-40%	-48%	-54%	-49%	-17%	-17%	0%	40%	3%	100%	100%	145%	150%	131%
Gross margin	368%	3725%	387%	93% 144%	337%	-79%	-40% -59%	-48% -74%	-54% -98%	-49% -79%	-2121%	13%	102%	2465%	-200%	-119%	100%	145%	150%	-677%
Research and development	3%	44%	7%	11%	15%	31%		47%	24%	36%	23%	-37%	-28%	-28%	-19%	-26%	33%	-10%	25%	1%
Sales and marketing	25%	91%	22%	35%	39%	49%	36%	51%	58%	49%	0%	-11%	-39%	-3%	-13%	9%	33%	35%	-17%	10%
General and administrative	9%	63%	7%	-41%		16%	10%	30%	58%	28%	21%	9%	-33%	-59%	-20%	3%	-7%	35%	150%	30%
Operating income (loss)	2%	40%	-2%	-16%	2%	43%		63%	73%	57%	49%	-19%	-36%	-35%	-14%	-31%	15%	4%	11%	-5%
Net income (loss)	23%	30%	-32%	-16%	1%	18%		126%	14%	24%	-76%	-16%	-33%	-1%	-32%	343%	14%	4%	11%	38%
EPS Diluted (Pro forma)	-85%	-53%	-62%	-55%	-57%	-21%	-35%	108%	-48%	-21%	-98%	-97%	-97%	-92%	-96%	94%	8%	-1%	6%	14%

Source: Company reports and Ascendiant Capital Markets estimates.

*Reflects a 1-for-100 Reverse Stock Split in January 2023



WiSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.)	WiSA Technologies.	Inc. (f.k.a	a. Summit Wireless	Technologies. Inc.)
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Balance Sheet (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2E	Q3E	Q4E	Q1E	Q2E	Q3E	Q4E
Assets																
Cash and cash equivalents	9.7	10.3	16.1	13.1	9.1	4.8	2.6	2.9	5.3	6.4	3.7	0.7	(2.8)	(6.5)	(9.7)	(13.6
Short term investments										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts receivable, net	0.1	0.4	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.6	0.7	1.0	0.7	1.2	1.8	2.5
Inventory	3.3	3.6	4.0	4.8	6.2	6.2	7.3	7.1	5.7	0.9	1.0	1.3	1.0	1.7	2.5	3.4
Deferred income taxes										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepaid expenses and other	1.4	<u>1.4</u>	<u>1.5</u>	<u>1.1</u>	1.0	0.5	1.0	0.9	<u>1.1</u>	0.4	0.5	0.6	0.5	0.8	<u>1.1</u>	1.6
Total current assets	14.6	15.7	21.7	19.2	16.5	11.8	11.2	11.1	12.3	8.3	5.9	3.7	(0.5)	(2.8)	(4.3)	(6.1
Long term securities/investments										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property and equipment, net	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Intangibles, net										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deferred income tax										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total assets	14.8	15.9	21.9	19.4	17.0	12.2	11.6	11.5	12.6	8.5	6.2	3.8	(0.4)	(2.7)	(4.2)	(5.9
Liabilities and stockholders' equity																
Accounts payable	1.1	0.7	0.8	1.5	2.1	1.2	2.6	2.0	2.2	0.6	0.7	1.0	0.7	1.2	1.7	2.4
Accrued expenses	1.8	2.7	2.0	1.4	1.7	1.5	1.2	1.6	1.1	0.8	0.9	1.3	0.9	1.6	2.3	3.2
Accrued interest										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deferred revenue										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deferred income tax										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Short term debt	0.3	0.8								0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total current liabilities	3.2	4.2	2.9	3.0	3.8	2.7	3.9	3.7	3.2	1.4	1.6	2.2	1.6	2.7	4.0	5.6
Deferred income taxes										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Warrant liabilities	0.4	0.0	0.0	0.0	0.2	0.0	1.0	9.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Other long term liabilities	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long term debt	0.6	0.1	0.0	0.0	0.0	0.1	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total other liabilities	1.0	0.1	0.1	0.0	0.2	0.1	2.4	9.8	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Preferred stock	0.6									0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common stock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.0	3.5
Additional paid-in capital	213.6	218.7	228.1	228.6	229.1	229.6	230.2	226.3	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0
Retained earnings	(203.7)	(207.1)	(209.1)	(212.2)	(216.1)	(220.2)	(224.8)		(229.2)	(232.7)	(235.8)	(239.3)	(243.3)	(247.2)	(250.5)	(254.3
•	(203.7)	(207.1)	(209.1)	(212.2)	(210.1)	(220.2)	(224.8)	(220.3)	(228.2)	, ,	,	,	, ,	, ,	,	•
Treasury stock										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accumulated other comprehensive i	ncome I									0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Table 1 de la	40.5	44.0	40.0	40.4	40.0			(0.0)		1.2	1.2	1.2	1.2	1.2	1.2	1.2
Total stockholders' equity	10.5	11.6	19.0	16.4	13.0	9.4	5.4	(2.0)	7.8	6.0	3.4	0.4	(3.1)	(6.5)	(9.3)	(12.6
Total stockholders' equity and liab	14.8	15.9	21.9	19.4	17.0	12.2	11.6	11.5	12.6	8.5	6.2	3.8	(0.4)	(2.7)	(4.2)	(5.9

Balance	Sheet	Drivers
Daiance	SHEEL	DIIVEIS

Bularios Cricot Brivois																
	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2E	Q3E	Q4E	Q1E	Q2E	Q3E	Q4E
Prepaid as % of total rev	123%	90%	82%	54%	173%	55%	110%	97%	227%	50%	50%	50%	50%	50%	50%	50%
Accounts payable as % of total rev	99%	42%	46%	77%	371%	125%	280%	223%	465%	75%	75%	75%	75%	75%	75%	75%
Inventories as % of cost of rev	384%	318%	304%	342%	1236%	824%	903%	785%	334%	150%	150%	150%	150%	150%	150%	150%
Accrued expenses as % of total rev	153%	168%	113%	71%	305%	160%	132%	178%	227%	100%	100%	100%	100%	100%	100%	100%
Activity Ratios																
A/R Days Sales Outstanding	11	24	10	10	39	24	23	27	43	70	70	7 0	70	70	70	70
Inventory Turnover	1.0x	1.3x	1.3x	1.2x	0.3x	0.5x	0.4x	0.5x	1.2x	2.7x	2.7x	2.7x	2.7x	2.7x	2.7x	2.7x
A/P Days Payable	119	54	57	100	375	141	293	204	114	92	94	96	91	92	94	96
Book & Cash Value (per share)																
Book Value per Share (diluted)	\$105.58	\$107.10	\$136.49	\$109.18	\$87.57	\$62.46	\$35.51	-\$6.05	\$4.49	\$1.59	\$0.89	\$0.11	-\$0.79	-\$1.64	-\$2.29	-\$3.08
Cash per Share (diluted)	\$97.26	\$94.76	\$115.45	\$87.39	\$61.10	\$31.70	\$17.54	\$8.78	\$3.04	\$1.68	\$0.96	\$0.18	-\$0.70	-\$1.63	-\$2.41	-\$3.31
Net cash per Share (diluted)	\$88.78	\$86.96	\$115.45	\$87.39	\$61.10	\$31.70	\$9.07	\$7.39	\$2.77	\$1.68	\$0.96	\$0.18	-\$0.70	-\$1.63	-\$2.41	-\$3.31

Source: Company reports and Ascendiant Capital Markets estimates



WiSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.)

Cash Flow Statement (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023	Mar-24	Jun-24	Sep-24	Dec-24	2024
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2E	Q3E	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-E
Cash flow from operating activiti	es																			
Net income	(3.3)	(3.4)	(2.1)	(3.1)	(11.8)	(3.9)	(4.1)	(4.6)	(3.5)	(16.2)	(0.9)	(3.4)	(3.1)	(3.5)	(10.9)	(4.1)	(3.9)	(3.2)	(3.8)	(15.1
Depreciation	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Amortization					0.0					0.0					0.0					0.0
Debt related amortization expens	e				0.0			0.2	0.7	0.9	0.7				0.7					0.0
Stock comp	0.3	0.4	0.3	0.5	1.4	0.5	0.5	0.5	0.5	2.0	0.5	0.5	0.5	0.5	2.0	0.5	0.5	0.5	0.5	2.0
Deferred rent					0.0					0.0					0.0					0.0
Deferred income taxes					0.0					0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Provision for bad debts					0.0					0.0					0.0					0.0
Reserves					0.0					0.0					0.0					0.0
Change in fair value of warrant I	0.6	0.6		0.0	1.1			(0.3)	(2.5)	(2.8)	(5.6)				(5.6)					0.0
Writedowns and impairments					0.0			()	(-/	0.0	()				0.0					0.0
Other gains/losses			(0.9)		(0.9)					0.0					0.0					0.0
Other			(/		0.0					0.0					0.0					0.0
Changes in operating assets and lia	abilities:																			
Accounts receivable	(0.1)	(0.3)	0.2	(0.0)	(0.1)	(0.0)	(0.0)	0.0	(0.0)	(0.1)	0.0	(0.4)	(0.1)	(0.3)	(0.7)	0.3	(0.5)	(0.6)	(0.7)	(1.5
Inventory	(0.6)	(0.3)	(0.4)	(0.8)	(2.1)	(1.4)	(0.0)	(1.0)	0.2	(2.3)	1.3	4.9	(0.2)	(0.3)	5.7	0.3	(0.7)	(0.8)	(0.9)	
Prepaid expenses & other curre	(0.5)	(0.0)	(0.1)	0.4	(0.2)	0.1	0.5	(0.5)	0.1	0.2	(0.3)	0.7	(0.1)	(0.2)	0.2	0.2	(0.3)	(0.4)	(0.5)	
Income tax	(0.0)	(0.0)	(0.1)	0.1	0.0	0	0.0	(0.0)	0.1	0.0	(0.0)	0.7	(0.1)	(0.2)	0.0	0.2	(0.0)	(0.1)	(0.0)	0.0
Other assets					0.0		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Accounts payable	0.5	(0.5)	0.2	0.7	0.9	0.6	(0.6)	1.1	(0.6)	0.5	0.0	(1.6)	0.1	0.3	(1.1)	(0.3)	0.5	0.5	0.7	1.4
Accrued expenses	0.4	0.9	(0.6)	(0.6)	0.0	0.2	(0.6)	0.1	0.4	0.1	(0.6)	(0.3)	0.2	0.3	(0.3)	(0.3)	0.6	0.7	0.9	1.9
Accrued interest	0.4	0.5	(0.0)	(0.0)	0.0	0.2	(0.0)	0.1	0.4	0.0	(0.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deferred revenue					0.0					0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other liabilities					0.0	(0.0)	(0.1)	(0.0)	(0.0)	(0.1)	(0.0)	0.0	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0	0.0
	(0.0)	(0.0)	(0.0)	(0.0)					1 1											
Net cash (used in) provided by	(2.8)	(2.6)	(3.2)	(2.9)	(11.5)	(4.0)	(4.3)	(4.6)	(4.6)	(17.5)	(4.6)	0.4	(2.7)	(3.0)	(9.9)	(3.4)	(3.8)	(3.1)	(3.8)	(14.1
Cook flow from investing astiviti																				
Cash flow from investing activitie						(0.0)		(0.0)			(0.0)			(0.0)						
Purchases of property and equip	(0.0)	(0.0)	(0.1)	(0.0)	(0.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(0.0)	(0.0)	(0.1)	(0.0)	
Purchases of short-term investme	ents				0.0					0.0					0.0					0.0
Acquisitions					0.0					0.0					0.0					0.0
Other					0.0					0.0					0.0					0.0
Net cash used in investing activ	(0.0)	(0.0)	(0.1)	(0.0)	(0.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(0.0)	(0.0)	(0.1)	(0.0)	(0.2
0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1																				
Cash flow from financing activiti	es																			
Issuance of debt					0.0			2.5	(0.0)	2.5		(0.5)	0.0	0.0	(0.5)	0.0	0.0	0.0	0.0	0.0
Repayment of debt	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(1.5)	(1.5)	(0.0)				(0.0)					0.0
Issuance of stock			9.0	0.0	9.0				6.4	6.4	7.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
Repurchase of common stock					0.0					0.0					0.0					0.0
Proceeds from stock option exe	5.1	3.2	0.0		8.3					0.0	0.0				0.0					0.0
Other					0.0					0.0		1.2			1.2					0.0
<u>Dividends and distributions</u>					0.0					0.0					0.0					0.0
Cash provided by (used in) fina	5.1	3.2	9.1	(0.0)	17.3	(0.0)	(0.0)	2.5	4.9	7.3	7.0	0.7	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0
Effect of exchange rate on cash					0.0					0.0					0.0					0.0
Not increase (decrease) in analy	2.2	0.0	E 0	(2.0)	E 7	(4.0)	(4.2)	(2.4)	0.3	(40.0)	2.4		(2.7)	(2 M	(2.2)	(2 A)	(2.0)	(2.2)	(2.0)	
Net increase (decrease) in cash Beginning cash and equivalents	2.3 7.4	0.6 9.7	5.8 10.3	(3.0) 16.1	5.7 7.4	(4.0) 13.1	(4.3) 9.1	(2.1) 4.8	0.3 2.6	(10.2) 13.1	2.4 2.9	1.1 5.3	(2.7) 6.4	(3.0) 3.7	(2.2) 2.9	(3.4) 0.7	(3.8) (2.8)	(3.2) (6.5)	(3.8) (9.7)	
Deginning cash and equivalents	9.7	10.3	16.1	13.1	13.1	9.1	4.8	2.6	2.6	2.9	5.3	6.4	3.7	0.7	0.7	(2.8)	(2.8) (6.5)	(0.0)	(13.6)	

Source: Company reports and Ascendiant Capital Markets estimates

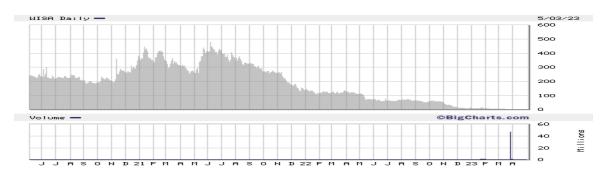
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ANALYST CERTIFICATION

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WiSA Technologies, Inc. (f.k.a. Summit Wireless Technologies, Inc.)



Source: https://bigcharts.marketwatch.com/

	Report Date		Price
Report	Date	Rating	Target
1	10/10/2018	Buy	14,000
2	11/20/2018	Buy	13,500
3	1/26/2019	Buy	12,500
4	3/31/2019	Buy	10,000
5	6/3/2019	Buy	8,000
6	8/15/2019	Buy	6,000
7	11/16/2019	Buy	4,000
8	3/26/2020	Buy	3,000
9	5/28/2020	Buy	1,500
10	8/18/2020	Buy	1,100
11	11/11/2020	Buy	1,200
12	3/18/2021	Buy	1,300
13	5/13/2021	Buy	1,400
14	8/17/2021	Buy	1,500
15	11/20/2021	Buy	1,200
16	3/16/2022	Buy	1,000
17	5/18/2022	Buy	500
18	8/22/2022	Buy	450
19	12/14/2022	Buy	175
20	3/28/2023	Buy	20

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WISA: WiSA Technologies, Inc.



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Risks & Considerations

Risks to attainment of our share price target include balance sheet/liquidity risks, changes in consumer demand for consumer products, changes to consumer electronics technologies, competition, changing macroeconomic factors, supply chain issues or costs, and investor sentiment for consumer/technology stocks.

Ascendiant Capital Markets, LLC Rating System

BUY: We expect the stock to provide a total return of 15% or more within a 12-month period.

HOLD: We expect the stock to provide a total return of negative 15% to positive 15% within a 12-month period.

SELL: We expect the stock to have a negative total return of more than 15% within a 12-month period.

Total return is defined as price appreciation plus dividend yield.

Ascendiant Capital Markets, LLC Distribution of Investment Ratings (as of April 14, 2023)

Investment Banking Services

Rating	Count	Percent	Past 12 months	
			Count	Percent
Buy	49	98%	18	37%
Hold	0	0%	0	0%
Sell	1	2%	0	0%
Total	50	100%	18	36%

WISA: WiSA Technologies, Inc.



Other Important Disclosures

Our analysts use various valuation methodologies including discounted cash flow, price/earnings (P/E), enterprise value/EBITDAS, and P/E to growth rate, among others. Risks to our price targets include failure to achieve financial results, product risk, regulatory risk, general market conditions, and the risk of a change in economic conditions.

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