EQUITY RESEARCH - RESULTS FLASH



HANA MICROELECTRONICS

RONICS HANA TB

THAILAND / ELECTRONIC COMPONENT



THB50.00

1Q24 results at first glance

กำไรปกติ 1Q24 ต่ำกว่าที่เราคาด 6% แต่ฟื้นตัว q-q และ y-y

Highlights

- HANA รายงานกำไรสุทธิ 1Q24 อยู่ที่ 313 ลบ. (+151% q-q, +18% y-y) เมื่อหักผล ขาดทุนจากอัตราแลกเปลี่ยน 39 ลบ. กำไรปกติอยู่ที่ 352 ลบ. (+21% q-q, +20% y-y) ต่ำกว่าที่เราและตลาดคาด 6% และ 10% ตามลำดับ เรามีมุมมองที่เป็นกลางเกี่ยวกับผล ประกอบการดังกล่าว
- ใน 1Q24 รายได้ในรูปเงินเหรียญสหรัฐฯ โต 2.9% q-q แต่ลดลง 6.3% y-y ในขณะที่ รายได้ในรูปเงินบาทลดลง 1.5% y-y จากการอ่อนตัวของค่าเงินบาท
- รายได้จากธุรกิจ PCBA เพิ่ม 6% q-q และ 5% y-y จากรายได้ที่สูงขึ้นจากฐานการผลิต ในไทยและจีน อย่างไรก็ดีรายได้จากธุรกิจ IC ลดลง 4% q-q และ 12% y-y จากรายได้ที่ ลดลงจากฐานการผลิตในไทย จีนและเกาหลีใต้ ในขณะที่รายได้จากธุรกิจ SiC ลดลง 20% q-q และ 38% y-y ส่วนมากจากความต้องการที่ลดลงจากจีน
- HANA บันทึกรายได้ 1Q24 จากจีนจำนวน 1พัน ลบ. (+10.7% q-q, -3.4% y-y) ตัวเลข สูงขึ้น q-q จากฐานที่ต่ำใน 4Q23 แต่ยังลดลง y-y
- อัตรากำไรขั้นตันฟื้นตัวเป็น 10.8% ใน 1Q24 ใกล้เคียงกับที่เราคาดโดยเพิ่มขึ้นจาก
 9.9% ใน 4Q23 และ 8.6% ใน 1Q23 จากค่าเงินบาทที่อ่อนตัว

Outlook

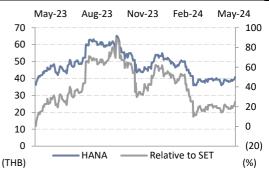
- กำไรปกติ 1Q24 คิดเป็น 16% ของประมาณการทั้งปีของเรา
- สถานการณ์โดยรวมยังใกล้เคียงกับเป้าประมาณการของผู้บริหาร เราคาดว่าผลการ ดำเนินงานของ HANA จะปรับตัวดีขึ้นต่อเนื่องใน 2Q24 เรามีมุมมองที่เป็นบวกเกี่ยวกับ แนวโน้มการฟื้นตัวในช่วง 2H24 ในทุกกลุ่มผลิตภัณฑ์โดยเฉพาะอย่างยิ่ง IC และ SiC คาดการณ์ดังกล่าวส่วนมากอยู่บนสมมติฐานที่ว่าความต้องการในจีนจะฟื้นตัวรวมถึง ประโยชน์จากการผสาน AI upgrades ลงในระบบ Software ของอุปกรณ์ในกลุ่ม Consumer electronics ใหม่ ๆ

CLOSE THB40.75 UP/DOWNSIDE +22.7% TP vs CONSENSUS +14.2%

TARGET PRICE

KEY STOCK DATA

YE Dec (THB m)	2023	2024E	2025E	2026E
Revenue	26,152	26,260	28,108	29,998
Net profit	1,761	2,189	2,442	2,707
EPS (THB)	1.99	2.47	2.76	3.06
vs Consensus (%)	-	2.1	(2.5)	(3.1)
EBITDA	3,752	4,058	4,426	4,732
Recurring net profit	2,009	2,189	2,442	2,707
Core EPS (THB)	2.27	2.47	2.76	3.06
EPS growth (%)	(23.8)	8.9	11.5	10.9
Core P/E (x)	18.0	16.5	14.8	13.3
Dividend yield (%)	2.5	2.7	3.0	4.5
EV/EBITDA (x)	7.6	7.0	6.3	5.6
Price/book (x)	1.2	1.2	1.1	1.1
Net debt/Equity (%)	(26.0)	(24.7)	(25.7)	(29.1)
ROE (%)	7.6	7.4	7.9	8.4



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	3.8	(12.8)	0.6
Relative to country (%)	5.3	(12.3)	14.1
Mkt cap (USD m)			984
3m avg. daily turnover (US	D m)		12.2
Free float (%)			58
Major shareholder	OMAC and rel	ated compa	nies (29%)
12m high/low (THB)		6	6.25/35.25
Issued shares (m)			885.36

Sources: Bloomberg consensus; FSSIA estimates



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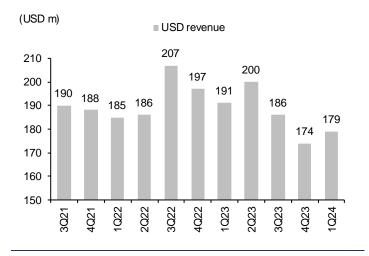
PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

Exhibit 1: HANA - 1Q24 results summary

	1Q23	2Q23	3Q23	4Q23	1Q24	Change)
	(THB m)	(q-q%)	(y-y%)				
Total revenue	6,466	6,910	6,555	6,221	6,371	2.4	(1.5)
Cost of sales	5,913	5,871	5,523	5,602	5,683	1.4	(3.9)
Gross profit	553	1,039	1,031	619	687	11.0	24.2
SG&A	382	392	449	408	415	1.8	8.8
Operating profit	171	646	582	211	272	28.9	58.6
Interest expense	1.8	8.0	17.4	24.7	23.9	(3.3)	1247.8
Tax expense	12	33	21	20	27	34.9	127.7
Reported net profit	266	635	734	125	313	150.8	17.5
Core profit	295	749	674	291	352	21.2	19.5
Key ratios (%)						(ppt)	(ppt)
Gross margin	8.6	15.0	15.7	9.9	10.8	0.8	2.2
SG&A to sales	5.9	5.7	6.9	6.6	6.5	(0.0)	0.6
Operating margin	2.7	9.4	8.9	3.4	4.3	0.9	1.6
Net margin	4.1	9.2	11.2	2.0	4.9	2.9	0.8
Core margin	4.6	10.8	10.3	4.7	5.5	0.9	1.0
Operating statistics (THB m)							
PCBA - Lamphun	3,032	3,142	3,094	3,044	3,176	4.3	4.7
PCBA - Jiaxing	797	893	785	774	884	14.2	10.9
PCBA - Cambodia	82	128	131	54	61	12.7	(26.0)
IC - Ayutthaya	1,816	1,983	1,827	1,692	1,624	(4.0)	(10.6)
IC - Jiaxing	247	293	238	137	125	(9.0)	(49.5)
HMT - USA	345	341	389	407	411	0.9	18.9
IC - South Korea	146	129	92	113	90	(20.1)	(38.1)
Total IC revenue	2,554	2,746	2,545	2,349	2,249	(4.2)	(11.9)
Total PCBA revenue	3,912	4,164	4,010	3,872	4,121	6.4	5.4
Revenue from China	1,044	1,186	1,023	911	1,009	10.7	(3.4)

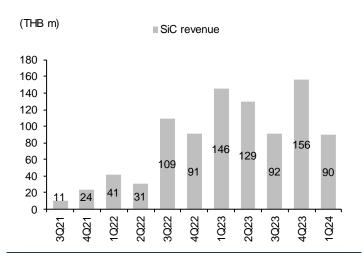
Sources: HANA; FSSIA's compilation

Exhibit 2: USD revenue



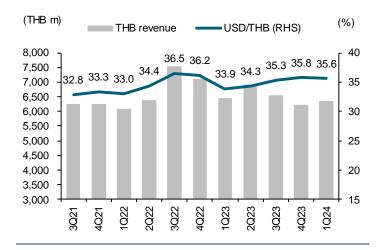
Sources: HANA, FSSIA's compilation

Exhibit 3: SiC revenue



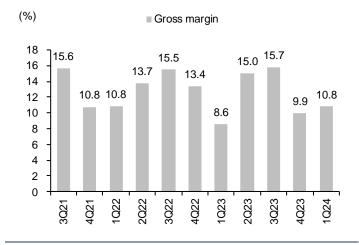
Sources: HANA, FSSIA's compilation

Exhibit 4: THB revenue



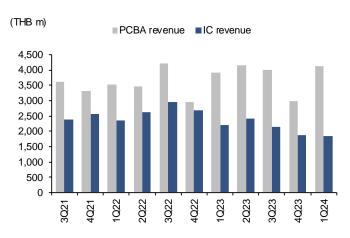
Sources: HANA, FSSIA's compilation

Exhibit 6: Gross margin



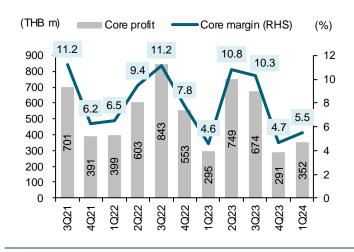
Sources: HANA, FSSIA's compilation

Exhibit 5: Revenue breakdown by product



Sources: HANA, FSSIA's compilation

Exhibit 7: Core profit and margin



Sources: HANA, FSSIA's compilation

Financial Statements

Hana Microelectronics

Profit and Loss (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Revenue	27,167	26,152	26,260	28,108	29,998
Cost of goods sold	(23,506)	(22,910)	(22,846)	(24,341)	(25,888)
Gross profit	3,661	3,242	3,414	3,766	4,110
Other operating income	458	439	446	478	510
Operating costs	(1,695)	(1,631)	(1,654)	(1,771)	(1,890)
Operating EBITDA	4,054	3,752	4,058	4,426	4,732
Depreciation	(1,630)	(1,702)	(1,852)	(1,952)	(2,002)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,425	2,050	2,206	2,473	2,730
Net financing costs	81	45	86	83	105
Associates	0	0	0	0	0
Recurring non-operating income	0	0	0	0	0
Non-recurring items	(296)	(249)	0	0	0
Profit before tax	2,209	1,846	2,292	2,557	2,835
Tax	(107)	(85)	(103)	(115)	(128)
Profit after tax	2,102	1,761	2,189	2,442	2,707
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	2,102	1,761	2,189	2,442	2,707
Non-recurring items & goodwill (net)	296	249	0	0	0
Recurring net profit	2,398	2,009	2,189	2,442	2,707
Per share (THB)					
Recurring EPS *	2.98	2.27	2.47	2.76	3.06
Reported EPS	2.61	1.99	2.47	2.76	3.06
DPS	1.00	1.00	1.11	1.24	1.83
Diluted shares (used to calculate per share data)	805	885	885	885	885
Growth					
Revenue (%)	14.2	(3.7)	0.4	7.0	6.7
Operating EBITDA (%)	15.1	(7.5)	8.2	9.1	6.9
Operating EBIT (%)	9.2	(15.5)	7.6	12.1	10.4
Recurring EPS (%)	5.4	(23.8)	8.9	11.5	10.9
Reported EPS (%)	36.0	(23.9)	24.3	11.5	10.9
Operating performance		. ,			
Gross margin inc. depreciation (%)	13.5	12.4	13.0	13.4	13.7
Gross margin exc. depreciation (%)	19.5	18.9	20.1	20.3	20.4
Operating EBITDA margin (%)	14.9	14.3	15.5	15.7	15.8
Operating EBIT margin (%)	8.9	7.8	8.4	8.8	9.1
Net margin (%)	8.8	7.7	8.3	8.7	9.0
Effective tax rate (%)	4.9	4.6	4.5	4.5	4.5
Dividend payout on recurring profit (%)	33.6	44.1	45.0	45.0	60.0
Interest cover (X)	(29.9)	(45.4)	(25.5)	(29.7)	(26.0)
Inventory days	136.1	158.6	154.1	147.5	147.2
Debtor days	64.0	70.9	71.0	67.7	67.8
Creditor days	64.0	65.0	56.7	52.7	52.6
Operating ROIC (%)	10.2	7.7	7.8	8.4	9.2
ROIC (%)	9.9	7.5	7.7	8.3	9.0
ROE (%)	10.2	7.6	7.4	7.9	8.4
ROA (%)	8.1	6.1	6.1	6.7	7.1
* Pre exceptional, pre-goodwill and fully diluted					• • •
Revenue by Division (THB m)	2022	2023	2024E	2025E	2026E
PCBA	15,214	15,791	16,107	16,912	18,265
IC .	10,595	8,962	8,726	9,697	10,205
IC Assemble (RFID / Microdisplay)	1,358	1,399	1,427	1,498	1,618
Occasional Missississississississississississississ	1,550	1,000	1,421	1,430	1,010

Sources: Hana Microelectronics; FSSIA estimates

Financial Statements

Hana Microelectronics

Cash Flow (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Recurring net profit	2,398	2,009	2,189	2,442	2,707
Depreciation	1,630	1,702	1,852	1,952	2,002
associates & minorities	-	-	-	-	
Other non-cash items	24	(241)	0	0	(7.10
Change in working capital	(2,626)	(491)	63	(695)	(716
cash flow from operations	1,426	2,980	4,104	3,699	3,994
Capex - maintenance Capex - new investment	(2,821)	(2,550)	(3,000)	(2,000)	(1,000
let acquisitions & disposals	(2,021)	(2,550)	(3,000)	(2,000)	(1,000
Other investments (net)	14	162	(21)	(28)	(28
Cash flow from investing	(2,807)	(2,389)	(3,021)	(2,028)	(1,028
Dividends paid	(1,191)	(859)	(985)	(1,099)	(1,624
quity finance	0	4,588	0	0	(1,0=1,
Debt finance	(2)	1,280	(1,280)	0	(
Other financing cash flows	209	(342)	(191)	55	57
Cash flow from financing	(984)	4,667	(2,457)	(1,043)	(1,568
Ion-recurring cash flows	-	-	-	-	
Other adjustments	0	0	0	0	(
let other adjustments	0	0	0	0	(
Novement in cash	(2,365)	5,258	(1,374)	628	1,398
ree cash flow to firm (FCFF)	(1,368.15)	643.40	1,101.54	1,686.10	2,965.63
ree cash flow to equity (FCFE)	(1,174.20)	1,529.93	(389.12)	1,726.43	3,022.33
Per share (THB)					
CFF per share	(1.55)	0.73	1.24	1.90	3.35
CFE per share	(1.33)	1.73	(0.44)	1.95	3.4
Recurring cash flow per share	5.03	3.92	`4.56	4.96	5.32
Balance Sheet (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
angible fixed assets (gross)	28,300	29,984	32,984	34,984	35,984
ess: Accumulated depreciation	(17,446)	(18,283)	(20,135)	(22,087)	(24,089
angible fixed assets (net)	10,853	11,701	12,849	12,897	11,89
ntangible fixed assets (net)	0	0	0	0	7
ong-term financial assets nvest. in associates & subsidiaries	72	72	72	72	7.
Cash & equivalents	3,634	8,893	7,518	8,146	9,54
√C receivable	4,981	5,178	5,036	5,391	5,75
nventories	9,457	8,969	8,763	9,336	9,93
Other current assets	171	119	131	141	150
Current assets	18,243	23,159	21,449	23,014	25,37
Other assets	534	373	394	422	45
otal assets	29,703	35,306	34,764	36,404	37,79
Common equity	23,862	29,147	30,292	31,634	32,71
Minorities etc.	0	0	0	0	
otal shareholders' equity	23,862	29,147	30,292	31,634	32,71
ong term debt	0	204	0	0	(
Other long-term liabilities	813	921	788	843	90
ong-term liabilities	814	1,125	788	843	90
√C payable	4,161	3,391	3,130	3,334	3,54
Short term debt	274	1,105	30	30	3
Other current liabilities	593	538	525	562	60
Current liabilities	5,027	5,034	3,685	3,927	4,17
otal liabilities and shareholders' equity	29,703	35,306	34,764	36,404	37,79
let working capital	9,856	10,338	10,276	10,971	11,68
nvested capital	21,316	22,485	23,591	24,362	24,10
Includes convertibles and preferred stock which is be	ing treated as debt				
er share (THB)					
ook value per share	29.65	32.92	34.21	35.73	36.9
angible book value per share	29.65	32.92	34.21	35.73	36.9
inancial strength					
let debt/equity (%)	(14.1)	(26.0)	(24.7)	(25.7)	(29.1
let debt/total assets (%)	(11.3)	(21.5)	(21.5)	(22.3)	(25.2
Current ratio (x)	3.6	4.6	5.8	5.9	6.
F interest cover (x)	(19.3)	(89.4)	(29.2)	(43.7)	(37.3
/aluation	2022	2023	2024E	2025E	2026
ecurring P/E (x) *	13.7 16.8	18.0 22.0	16.5	14.8 18.1	13. 16
ecurring P/E @ target price (x) *	16.8		20.2 16.5		16. 13
Reported P/E (x)	15.6 2.5	20.5	16.5 2.7	14.8 3.0	13.
vise/book (x)	2.5	2.5	2.7	3.0	4.
rice/book (x) rice/tangible book (x)	1.4 1.4	1.2 1.2	1.2 1.2	1.1 1.1	1. 1.
:V/EBITDA (x) **	7.3	7.6	7.0	6.3	5.
V/EBITDA (x) *** V/EBITDA @ target price (x) **	7.3 9.1	7.6 9.8	7.0 9.1	6.3 8.2	5. 7.
V/invested capital (x)	1.4	1.3	1.2	1.1	1.

Sources: Hana Microelectronics; FSSIA estimates

Hana Microelectronics PCL (HANA TB)

FSSIA ESG rating

★ ★ ★

Exhibit 8: FSSIA ESG score implication

56.35 /100

Rating	Score	Implication
****	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
****	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
***	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
**	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
*	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

Exhibit 9: ESG – peer comparison

	FSSIA			Domes	stic ratings					Glo	bal ratings	;		Bloomberg	
	ESG score	DJSI	SET THSI	THSI	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	69.20	5.34	4.40	4.40	4.76	4.65	3.84	Medium	51.76	BBB	20.87	58.72	63.91	3.72	28.17
Coverage	67.12	5.11	4.15	4.17	4.83	4.71	3.53	Medium	52.04	BB	16.97	56.85	62.09	3.40	31.94
DELTA	87.59	Υ	Υ	Υ	5.00	5.00	Certified	Low	68.81	AA		91.19	74.00	4.15	
HANA	56.35		Υ	Y	5.00	5.00	Certified	Negligible	56.93	BBB		44.01	31.00	1.81	
KCE	45.77				5.00	5.00	Certified	Medium	52.70			61.53	16.00	2.16	52.98

Sources: <u>SETTRADE.com</u>; FSSIA's compilation

Exhibit 10: ESG score by Bloomberg

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	0.91	0.98	0.99	1.39	1.61	1.81	_
BESG environmental pillar score	0.00	0.00	0.00	0.00	0.00	0.00	_
BESG social pillar score	0.37	0.37	0.37	1.14	1.63	1.66	_
BESG governance pillar score	3.51	3.89	3.96	3.95	3.95	4.88	_
ESG disclosure score	25.98	25.98	25.98	30.50	36.02	36.02	_
Environmental disclosure score	1.66	1.66	1.66	7.13	22.92	22.92	_
Social disclosure score	15.90	15.90	15.90	24.00	24.79	24.79	_
Governance disclosure score	60.26	60.26	60.26	60.26	60.26	60.26	_
Environmental							
Emissions reduction initiatives	Yes						
Climate change policy	No	No	No	Yes	Yes	Yes	Yes
Climate change opportunities discussed	No	No	No	Yes	Yes	Yes	Yes
Risks of climate change discussed	No						
GHG scope 1	_	_	_	_	1	1	1
GHG scope 2 location-based	_	_	_	26	26	23	23
GHG Scope 3	_	_	_	_	_	_	_
Carbon per unit of production	_	_	_	_	_	_	_
Biodiversity policy	No						
Energy efficiency policy	No	No	No	No	No	No	Yes
Total energy consumption	_	_	_	_	_	_	_
Renewable energy use	_	_	_	_	_	_	_
Electricity used	_	_	_	_	_	_	_
Fuel used - natural gas	_	_	_	_	_	_	_

Sources: Bloomberg; FSSIA's compilation

Exhibit 11: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No						
Waste reduction policy	Yes						
Hazardous waste	_	_	_	_	_	_	_
Total waste	_	_	_	_	_	_	_
Waste recycled	_	_	_	_	_	_	_
Waste sent to landfills	_	_	_	_	_	_	_
Environmental supply chain management	No	No	No	No	Yes	Yes	Yes
Water policy	Yes						
Water consumption	_	_	_	_	_	_	_
Social							
Human rights policy	Yes						
Policy against child labor	Yes						
Quality assurance and recall policy	Yes						
Consumer data protection policy	No						
Equal opportunity policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Gender pay gap breakout	No						
Pct women in workforce	_	_	_	73	73	72	-
Pct disabled in workforce	_	_	_	1	1	1	-
Business ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Anti-bribery ethics policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Health and safety policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Lost time incident rate - employees	_	_	_	0	0	0	-
Total recordable incident rate - employees	_	_	_	_	_	_	-
Training policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Fair remuneration policy	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Number of employees – CSR	4,038	3,947	3,969	3,957	3,742	3,636	3,32
Employee turnover pct	_	_	_	_	_	_	-
Total hours spent by firm - employee training	199,881	165,774	182,574	197,850	179,616	207,252	150,148
Social supply chain management	No	No	No	No	Yes	Yes	Yes
Governance							
Board size	6	6	6	6	6	6	;
No. of independent directors (ID)	3	3	3	3	3	3	•
No. of women on board	1	1	1	1	1	1	:
No. of non-executive directors on board	3	3	3	3	3	3	•
Company conducts board evaluations	Yes	Yes	Yes	Yes	Yes	Yes	Ye
No. of board meetings for the year	7	7	7	7	7	7	
Board meeting attendance pct	100	100	100	100	100	100	10
Board duration (years)		_	_	_	_	_	-
Director share ownership guidelines	No	No	No	No	No	No	N
Age of the youngest director	56	53	54	55	56	57	5
Age of the oldest director	82	72	73	73	74	75	6
No. of executives / company managers	5	5	5	5	5	5	
No. of female executives	1	1	1	1	1	1	
Executive share ownership guidelines	No	No	No	No	No	No	N
Size of audit committee	3	3	3	3	3	3	
No. of ID on audit committee	3	3	3	3	3	3	
Audit committee meetings	4	4	4	4	4	4	•
Audit meeting attendance %	100	100	100	100	100	100	10
Size of compensation committee	0	0	0	0	0	0	
No. of ID on compensation committee	_	_	_	_	_	_	-
No. of compensation committee meetings	_	_	_	_	_	_	-
Compensation meeting attendance %	_	_	_	_	_	_	-
Size of nomination committee	3	3	3	3	3	3	
No. of nomination committee meetings	3	2	3	3	2	3	
Nomination meeting attendance %	100	100	100	100	100	100	100
Sustainability governance							
Verification type	No	No	No	No	No	No	N

Sources: Bloomberg; FSSIA's compilation

Disclaimer for ESG scoring

ESG score	Methodolog	у			Rating						
The Dow Jones Sustainability Indices (DJSI) By S&P Global	process base from the annu	ed on the comunity	transparent, rules-based npanies' Total Sustainab oal Corporate Sustainabi panies within each indust	ility Scores resulting lity Assessment (CSA).	Sustainability A ESG Score of le	ssessment (C ess than 45% ny are disquali	he annual S&P (SA) for DJSI. Co of the S&P Glob fied. The constit verse.	ompanies with al ESG Score	an S&P Globa of the highest		
Sustainability Investment List (THSI) by The Stock Exchange of Thailand (SET)	managing bu Candidates n 1) no irregula float of >150 up capital. So 70%; 2) indep wrongdoing r	siness with tr nust pass the ar trading of th shareholders ome key disq pendent direct elated to CG	oility in Environmental and ransparency in Governar to preemptive criteria, with the board members and the same and combined holding jualifying criteria include: ctors and free float violate, social & environmental earnings in red for > 3 yes	nce, updated annually. In two crucial conditions: executives; and 2) free must be >15% of paid- 1) CG score of below ion; 3) executives' impacts; 4) equity in	nature of the relevant industry and materiality.						
CG Score by Thai Institute of Directors Association (Thai IOD)	annually by the	he Thai IOD, T). The resul	th in sustainable develop with support from the St Its are from the perspecti ns.	ock Exchange of	Good (80-89), 3 and not rated for equitable treatm	3 for Good (70 or scores below nent of shareh 5%); 4) disclo	ories: 5 for Exce 1-79), 2 for Fair (w 50. Weighting solders (weight 2 sure & transpare	60-69), 1 for F s include: 1) th 25% combined	lass (60-69), ne rights; 2) and); 3) the role of		
AGM level By Thai Investors Association (TIA) with support from the SEC	treatment are transparent a out of five the criteria cover date (45%), a circulation of su exercised. The and verifiability,	e incorporated and sufficientl e CG compon AGM proced and after the l ufficient informa second assess g and 3) openne	which shareholders' right d into business operatior ly disclosed. All form impents to be evaluated and dures before the meeting meeting (10%). (The firstation for voting; and 2) facilities ses 1) the ease of attending ress for Q&A. The third involves, resolutions and voting resolutions and voting resolutions and voting resolutions and voting resolutions.	as and information is ortant elements of two nually. The assessment (45%), at the meeting assesses 1) advance ting how voting rights can be meetings; 2) transparency es the meeting minutes that	Very Good (90-		four categories (80-89), and no		, ,,		
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	establishmen policies. The (Companies de Declaration of I Certification, in managers and	nt of key control Certification eciding to becor Intent to kick off cluding risk ass employees, est	Checklist include corrupt rols, and the monitoring is good for three years. me a CAC certified member of an 18-month deadline to sue tablishment of whistleblowing all stakeholders.)	and developing of start by submitting a abmit the CAC Checklist for and control, training of	The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.						
Morningstar Sustainalytics	based on an risk is unman	assessment aged. Source	risk rating provides an ov of how much of a compa se to be reviewed include cor	ny's exposure to ESG porate publications and			score is the sun higher ESG risk		ed risk. The		
		mpany feedbad	ther media, NGO reports/web ck, ESG controversies, issuel views.		NEGL	Low	Medium	High	Severe		
		,,			0-10	10-20	20-30	30-40	40+		
ESG Book	positioned to the principle helps explain	outperform of of financial manding future risk-ang features w	sustainable companies to over the long term. The nateriality including information in djusted performance. Ma with higher materiality and erly basis.	nethodology considers nation that significantly ateriality is applied by							
MSCI .				nanagement of financially their exposure to ESG ri					nethodology to		
	AAA	8.571-10.00	00								
	AA	7.143-8.570	Leader: 0	leading its industry in m	nanaging the most si	gnificant ESG ris	sks and opportuniti	es			
	Α	5.714-7.142	2								
	BBB	4.286-5.713	3 Average:	a mixed or unexception industry peers	al track record of ma	anaging the mos	t significant ESG ri	sks and opportu	nities relative to		
	ВВ	2.857-4.285	5	, p							
	В	1.429-2.856	6 Laggard:	lagging its industry base	ed on its high evacs	ure and failure to	manage significa	nt ESG rieke			
	CCC	0.000-1.428	8 <u>Laggara.</u>	iagging its industry Dasi		and rallule li	anago signinodi	200 11303			
Moody's ESG				take into account ESG o							
solutions			ntegrating ESG factors in for shareholders over the	nto its business model and medium to long term.	d relatively outpe	rforming its pe	ers is better pos	sitioned to mitig	gate risks and		
Refinitiv ESG rating	based on pub	olicly available	le and auditable data. Th	e a company's relative ES e score ranges from 0 to are 0 to 25 = poor; >25 to 50	100 on relative E	SG performan	ce and insufficie	ent degree of t			
S&P Global				asuring a company's perf ssification. The score ran		•	of ESG risks, op	portunities, ar	id impacts		
Bloomberg	ESG Score		score is based on Bloc		ancial materiality.	The score is a	a weighted gene	ralized mean	power mean)		
			score is based on Bloomberg's view of ESG financial materiality. The score is a weighted generalized mean (power mean) of Pillar Scores, where the weights are determined by the pillar priority ranking. Values range from 0 to 10; 10 is the best. Disclosure of a company's ESG used for Bloomberg ESG score. The score ranges from 0 for none to 100 for disclosure of								

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "CG Score"; 2) "AGM Level"; 3) "Thai CAC"; and 4) THSI. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

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History of change in investment rating and/or target price



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
07-Mar-2023	HOLD	60.00	21-Aug-2023	BUY	67.00	16-Nov-2023	BUY	60.00
22-May-2023	BUY	46.00	17-Oct-2023	BUY	64.00	05-Mar-2024	BUY	50.00

Sureeporn Teewasuwet started covering this stock from 07-Mar-2023

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Hana Microelectronics	HANA TB	THB 40.75	BUY	Downside risks to our P/E-based TP include 1) a slower-than-expected recovery in the global economy and purchasing power, 2) higher-than-expected raw material costs, 3) Baht strength, and 4) higher minimum wage and labor shortages.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 14-May-2024 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (O). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

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