EQUITY RESEARCH - COMPANY REPORT



FSSIA ESG rating



HANA MICROELECTRONICS

HANA TB

THAILAND / ELECTRONIC COMPONENT

เพิ่มทุนเพื่อรองรับการเติบโตในอนาคต

- เสนอขายหุ้นเพิ่มทุน PP ได้ครบตามที่ขอผู้ถือหุ้นไว้ และได้เงิน 4.5 พันลบ. เพื่อใช้ ขยายโรงงาน SiC ที่ปัจจุบันตลาดยังเล็ก แต่มีแนวโน้มเติบโตสูง โดยเฉพาะตลาด EV
- คาดปี 2024 เกิด EPS Dilution เพราะการลงทุนต้องใช้เวลา แต่มองบวกระยะยาว
- ปรับลดเป้าเป็น 64 บาท หลังรวมหุ้นเพิ่มทุน ราคาหุ้นที่ปรับลง มองเป็นโอกาสซื้อ

เพิ่มทุน PP ได้ครบ 10% ตามที่ขอผู้ถือหุ้นไว้ เพื่อขยายโรงงาน SiC

ประกาศเพิ่มทุน PP จำนวน 80.48 ล้านหุ้น (10% ของทุนทั้งหมด) ให้กับนักลงทุน สถาบัน 25 ราย ที่ราคา 57 บาท/หุ้น ซึ่งได้รับอนุมัติจากผู้ถื่อหุ้นเมื่อวันที่ 28 เม.ย. 23 ทั้งนี้บริษัทจะได้รับเงินจากการเพิ่มทุนราว 4.5 พันลบ. โดยมีวัตถุประสงค์การใช้เงิน แบ่งเป็น 1) เพื่อใช้ขยายกำลังการผลิต SiC โรงงานที่เกาหลีใต้ ภายใต้บริษัทย่อย Power Master Semiconductor ราว 2.9 พันลบ.ในปี 2024 และ 2) อีกราว 1.6 พันลบ. จะใช้ ลงทุนในอุปกรณ์สำหรับธุรกิจเดิมของบริษัทในปี 2025

ตลาด SiC ยังเล็ก แต่แนวโห้มเติบโตสูง

การเพิ่มทุนนี้อาจก่อให้เกิด Dilution Effect ในปี 2024 แต่มองบวกระยะยาว หลังเริ่ม ลงทุนขยายกำลังการผลิต SiC โดยมีแผนใช้เงินลงทุนปี 2023-24 ราว USD100 ล้าน แม้ มูลค่าตลาด SiC ยังเล็กราว USD2.3 พันล้าน (0.4% ของยอดขาย Semiconductor ทั่ว ์โลก) แต่ตลาดคาดจะมีอัตราการเติบโตสูงราว 46% CAGR เป็น USD7 พันล้าน ในปี 2025 ปัจจุบันมีการใช้ SiC ในอุตสาหกรรม Automotive และ Industrial ในสัดส่วนราว 68% และ 32% ตามลำดับ โดย HANA ตั้งเป้ารายได้ SiC ในปี 2023-25 ไว้ที่ USD20m/45-48m/90-94m ตามลำดับ และคาด EBITDA จะถึงจุดคุ้มทุนได้เร็วสุดในปี 2024 ส่วน Bottom line จะบวกได้น่าจะเห็นในปี 2025

คาดกำไรฟื้นตัวค่อยเป็นค่อยไป ระยะยาวยังมองบวกตามเดิม

เราคาดกำไรสุทธิ์ 3Q23 อยู่ที่ 750 ลบ. (+18% q-q, +80% y-y) หากไม่รวม FX loss ที่ ัสูงในปีกอน คาดกำไรปกติ 3Q23 ยังลดลง 11% y-y เนื่องจากภาพรวม Demand สินค้า กลุ่ม Consumer ฟื้นตัวอย่างค่อยเป็นค่อยไป รวมถึงยังรอการฟื้นตัวของตลาดจีน เบื้องต้นคาดรายได้อยู่ที่ USD202 ล้าน (-1% q-q, -2.4% y-y) และยังมองกำไร 4Q23 จะ อ่อนลง q-q ตามฤดูกาล แต่โดยรวมยังดูดีกว่าที่เคยคาดไว้ หลังการปรับลดระดับสินค้า คงเหลือของลกค้าสิ้นสดลง และคาดเห็นความต้องการสินค้า Consumer ในปี 2024 เริ่ม ฟื้นตัวอีกครั้งนับตั้งแต่มีโควิด เราจึงปรับเพิ่มกำไรสุทธิปี 2023-25 ขึ้น 9.4%/5%/8.7% แต่ปรับลด EPS หลังรวมหุ้นเพิ่มทุน 1.3%/4.6%/1.2% ตามลำดับ

ปรับลดราคาเป้าหมายปี 2024 หลังเผชิญผลของ Dilution เล็กห้อย

ปรับลดราคาเป้าหมายปี 2024 ลงเป็น 64 บาท จากเดิม 67 บาท (อิง PE เดิม 23x) แม้ คาดปี 2024 จะเกิด Dilution ราว 4.6% เนื่องจากการขยายกำลังการผลิตต้องใช้เวลา แต่ มองบวกต่อการเติบโตระยะยาว ขณะที่ฐานะทางการเงินยังแข็งแกร่งต่อเนื่อง โดยคาด D/E ratio ยังต่ำเพียง 0.17x แต่ ROE ก็ยังค่อนไปทางต่ำกว่ากลุ่มเพียง 9.4% ด้วยผล ของการเพิ่มทน และคาดจะขยับขึ้นเป็น 10.1% ในปี 2024 ที่ราคาเป้าหมายใหม่มี Upside ราว 11% คงคำแนะนำ ซื้อ

UNCHANGED

TARGET PRICE THB64.00 **CLOSE** THB57.50 **UP/DOWNSIDE** +11.3% PRIOR TP THB67.00 **CHANGE IN TP** -4.5% TP vs CONSENSUS -3.9%

KEY STOCK DATA

YE Dec (THB m)	2022	2023E	2024E	2025E
Revenue	27,167	27,303	28,309	30,530
Net profit	2,102	2,298	2,464	2,755
EPS (THB)	2.61	2.60	2.78	3.11
vs Consensus (%)	-	(6.2)	(14.9)	(18.8)
EBITDA	4,054	4,172	4,361	4,757
Recurring net profit	2,398	2,314	2,464	2,755
Core EPS (THB)	2.98	2.61	2.78	3.11
Chg. In EPS est. (%)	-	(0.6)	(4.6)	(1.2)
EPS growth (%)	5.4	(12.3)	6.5	11.8
Core P/E (x)	19.3	22.0	20.7	18.5
Dividend yield (%)	1.7	1.8	2.2	2.4
EV/EBITDA (x)	10.6	11.5	11.0	10.1
Price/book (x)	1.9	2.0	1.9	1.8
Net debt/Equity (%)	(14.1)	(11.2)	(10.5)	(10.8)
ROE (%)	10.2	9.4	9.4	10.1



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(6.1)	17.9	67.9
Relative to country (%)	0.0	26.3	86.3
Mkt cap (USD m)			1,271
3m avg. daily turnover (USE) m)		25.9
Free float (%)			58
Major shareholder	OMAC and rel	ated compa	nies (32%)
12m high/low (THB)		6	6.25/32.75
Issued shares (m)			885.36

Sources: Bloomberg consensus; FSSIA estimates



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Investment thesis

HANA ถือเป็นหนึ่งในผู้นำที่ให้บริการผลิต EMS ในภูมิภาคเอเชีย ตะวันออกเฉียงใต้ และมีประสบการณ์มายาวนานกว่า 45 ปี นับตั้งแต่ ก่อตั้งบริษัทในปี 1978 แม้บริษัทจัดเป็นผู้ผลิตกลางน้ำ แต่มีจุดแข็ง อยู่ที่การกระจายไปใน End products หลากหลายกลุ่ม อาทิ Telecommunications, Computers, Consumer products, Automobiles, Radio frequency identification (RFID), and Medical products รวมถึงมีการฐานการผลิตอยู่ในหลายประเทศ และยังมีการ พัฒนาสินค้าใหม่เช่น SiC เพื่อตอบสนองให้ทันกับความต้องการของ ลูกค้าในหลาย ๆอุตสาหกรรม โดยเฉพาะรถยนต์ EV

Company profile

www.hanagroup.com

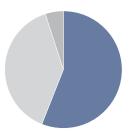
HANA เป็นผู้ให้บริการผลิต ผลิตภัณฑ์อิเล็กทรอนิกส์แบบครบวงจร (Electronic Manufacturing Service หรือ EMS) โดยครบคลุมทั้ง IC PCBA, RFID และ LCOS เป็นตัน ซึ่งมีโรงงานผลิตจำนวน 7 แห่ง ตั้งอยู่ที่ประเทศไทย จีน สหรัฐ กัมพูชา และเกาหลีใต้ รวมจำนวน พื้นที่การผลิตกว่า 1.7 ล้านตร.ฟุต และมีพนักงานกว่า 1 หมื่นคนทั่ว โลก โดยสิ้นปี 2022 บริษัทมีสัดส่วนรายได้จาก PCBA 56% รองมา คือ IC 38%, RFID 5% และ SiC 1% ของรายได้รวม ตามลำดับ

Principal activities (revenue, 2022)

■ PCBA - 56.0 %

■ IC - 39.0 %

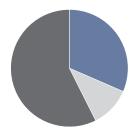
IC Assemble (RFID / Microdisplay)5.0 %



Source: Hana Microelectronics

Major shareholders

- OMAC and related companies -31.5 %
- LGT Bank (Singapore) Ltd 11.1
- Others 57.4 %



Source: Hana Microelectronics

Catalysts

ปัจจัยหนุนการเติบโตในปี 2024 คือ 1) การฟื้นตัวของเศรษฐกิจโลก และ กำลังซื้อ โดยเฉพาะในตลาดจีน 2) การลดลงของราคาตันทุนวัตถุดิบ 3) การ ขยายกำลังการผลิตที่เร็วกว่าแผน

Risks to our call

ความเสี่ยงต่อราคาเป้าหมายของเราคือ 1) เศรษฐกิจโลกและกำลังซื้อฟื้นตัว ช้ากว่าคาด 2) ต้นทุนวัตถุดิบปรับตัวสูงกว่าคาด 3) ค่าเงินบาทแข็งค่า และ 4) ตันทุนค่าแรงปรับตัวสูงขึ้น หรือประสบปัญหาขาดแคลนแรงงาน

Event calendar

Date	Event
November 2023	3Q23 results announcement
	3Q23 Analyst meeting

Key assumptions

	2023E	2024E	2025E
USD total revenue (USD m)	791	858	925
SiC revenue (USD m)	20	48	90
FX rate (USD/THB)	35	33	33
THB revenue growth (%)	0.5	3.7	7.8
Gross margin (%)	13.0	13.0	13.4

Source: FSSIA estimates

Earnings sensitivity

- For every THB1/USD increase, we estimate 2024 net profit to fall by 6.8%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2024 net profit to rise by 5.7%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2024 net profit to fall by 1.3%, and vice versa, all else being equal.
- For every 10% increase in labour cost, we estimate 2024 net profit to fall by 6.6%, and vice versa, all else being equal.

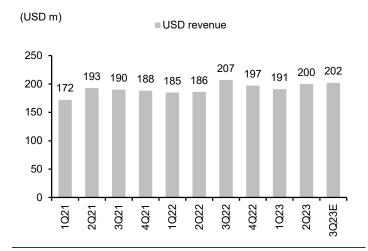
Source: FSSIA estimates

Exhibit 1: 3Q23 earnings preview

	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23E	Cha	nge	9M22	9M23E	Change
	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)						
Total revenue	6,107	6,390	7,545	7,125	6,466	6,910	7,070	2.3	(6.3)	20,042	20,446	2.0
Cost of sales	5,445	5,512	6,378	6,171	5,913	5,871	6,024	2.6	(5.6)	17,335	17,808	2.7
Gross profit	663	878	1,167	954	553	1,039	1,046	0.7	(10.3)	2,707	2,638	(2.6)
SG&A	381	401	408	505	382	392	396	0.9	(2.9)	1,189	1,170	(1.6)
Operating profit	282	477	759	449	171	646	650	0.6	(14.3)	1,518	1,468	(3.3)
Interest expense	1.5	2.7	2.5	5.9	1.8	8.0	8.0	(0.5)	218.3	7	18	168.7
Tax expense	15	15	46	31	12	33	35	7.5	(23.6)	76	80	5.2
Reported net profit	365	245	417	1,075	266	635	750	18.1	80.0	1,027	1,652	60.9
Core profit	399	603	843	553	295	749	750	0.1	(11.1)	1,845	1,794	(2.8)
Key Ratios (%)								(ppt)	(ppt)			
Gross margin	10.8	13.7	15.5	13.4	8.6	15.0	14.8	(0.2)	(0.7)	13.5	12.9	(0.6)
SG&A to sales	6.2	6.3	5.4	7.1	5.9	5.7	5.6	(0.1)	0.2	5.9	5.7	(0.2)
Operating margin	4.6	7.5	10.1	6.3	2.7	9.4	9.2	(0.2)	(0.9)	7.6	7.2	(0.4)
Net margin	6.0	3.8	5.5	15.1	4.1	9.2	10.6	1.4	5.1	5.1	8.1	3.0
Core margin	6.5	9.4	11.2	7.8	4.6	10.8	10.6	(0.2)	(0.6)	9.2	8.8	(0.4)

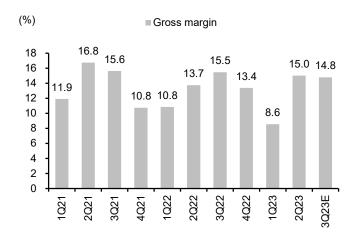
Sources: HANA, FSSIA estimates

Exhibit 2: Quarterly USD revenue



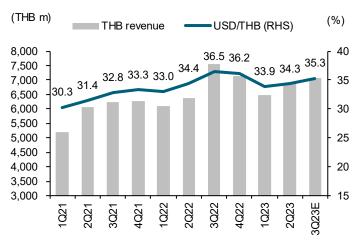
Sources: HANA, FSSIA estimates

Exhibit 4: Quarterly gross margin



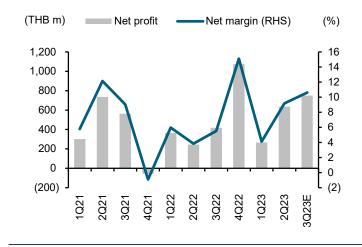
Sources: HANA, FSSIA estimates

Exhibit 3: Quarterly THB revenue



Sources: HANA, FSSIA estimates

Exhibit 5: Quarterly net profit and net margin



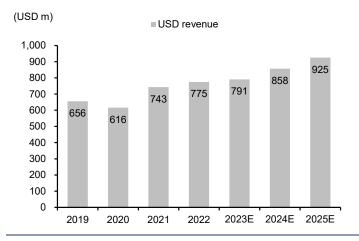
Sources: HANA, FSSIA estimates

Exhibit 6: Key assumptions for HANA

		Current			- Previous			- Change	
	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
	(THB m)	(THB m)	(%)	(%)	(%)				
Total sale value (THB m)	27,303	28,309	30,530	26,725	27,717	29,590	2.2	2.1	3.2
Costs	23,754	24,629	26,455	23,438	24,958	26,584	1.3	(1.3)	(0.5)
Gross profit	3,549	3,680	4,076	3,287	3,598	3,902	8.0	2.3	4.4
SG&A expense	1,666	1,755	1,893	1,630	1,713	1,829	2.2	2.4	3.5
Interest expense	26	19	15	11	11	12	145.8	73.6	24.8
Reported net profit	2,298	2,464	2,755	2,116	2,347	2,535	8.6	5.0	8.7
Core profit	2,314	2,464	2,755	2,116	2,347	2,535	9.4	5.0	8.7
EPS (THB/share)	2.60	2.78	3.11	2.63	2.92	3.15	(1.3)	(4.6)	(1.2)
Key ratios (%)									
Total revenue growth	0.5	3.7	7.8	(1.6)	6.9	6.8	2.1	(3.2)	1.1
Net profit growth	9.3	7.2	11.8	0.7	10.9	8.0	8.6	(3.7)	3.8
Core profit growth	(3.5)	6.5	11.8	(11.8)	10.9	8.0	8.3	(4.4)	3.8
Gross margin	13.0	13.0	13.4	12.3	12.6	12.8	0.7	0.4	0.5
SG&A to sales	6.1	6.2	6.2	6.1	6.0	6.0	0.0	0.2	0.2
Net margin	8.4	8.7	9.0	7.9	8.2	8.3	0.5	0.5	0.7
Core margin	8.5	8.7	9.0	7.9	8.2	8.3	0.6	0.5	0.7
Operating statistics									
Total revenue (USD m)	791	858	925	786	840	897	0.7	2.1	3.2
SiC revenue (USD m)	20	48	90	20	48	80	0.0	0.0	12.5
FX rate (THB/USD)	34.5	33.0	33.0	33.0	33.0	33.0	4.5	0.0	0.0

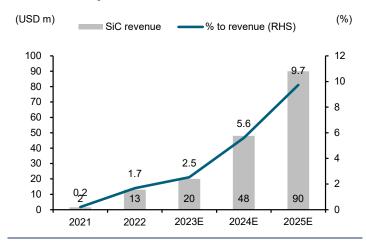
Source: FSSIA etimates

Exhibit 7: Yearly USD revenue



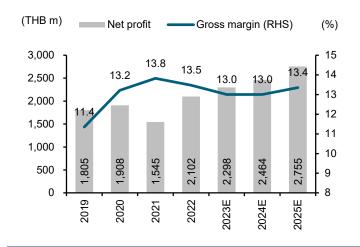
Sources: HANA, FSSIA estimates

Exhibit 8: Yearly SiC revenue



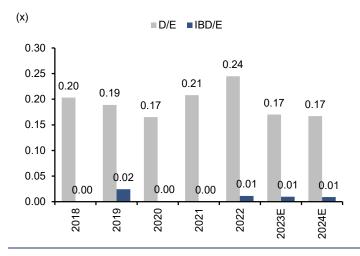
Sources: HANA, FSSIA estimates

Exhibit 9: Yearly net profit and gross margin



Sources: HANA, FSSIA estimates

Exhibit 11: D/E and IBD/E



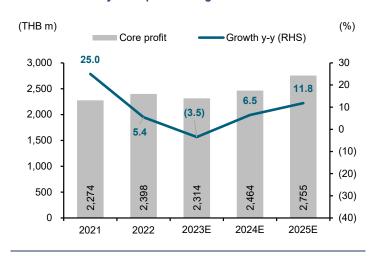
Sources: HANA, FSSIA estimates

Exhibit 13: Historical P/E band



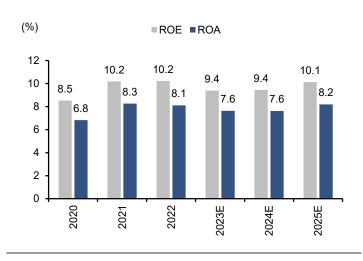
Sources: Bloomberg, FSSIA estimates

Exhibit 10: Yearly core profit and growth



Sources: HANA, FSSIA estimates

Exhibit 12: ROE and ROA



Sources: HANA, FSSIA estimates

Exhibit 14: Historical P/BV band



Sources: Bloomberg, FSSIA estimates

Financial Statements

Hana Microelectronics

Profit and Loss (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Revenue	23,780	27,167	27,303	28,309	30,530
Cost of goods sold	(20,493)	(23,506)	(23,754)	(24,629)	(26,455)
Gross profit	3,287	3,661	3,549	3,680	4,076
Other operating income	357	458	483	481	519
Operating costs	(1,423)	(1,695)	(1,666)	(1,755)	(1,893)
Operating EBITDA	3,522	4,054	4,172	4,361	4,757
Depreciation	(1,301)	(1,630)	(1,805)	(1,955)	(2,055)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	2,221	2,425	2,367	2,406	2,702
Net financing costs	106	81	56	174	183
Associates	0	0	0	0	0
Recurring non-operating income	0	0	0	0	0
Non-recurring items	(729)	(296)	(16)	0	0
Profit before tax	1,598	2,209	2,407	2,580	2,885
Tax	(53)	(107)	(109)	(116)	(130)
Profit after tax	1,545	2,102	2,298	2,464	2,755
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	1,545	2,102	2,298	2,464	2,755
Non-recurring items & goodwill (net)	729	296	16	0	0
Recurring net profit	2,274	2,398	2,314	2,464	2,755
Per share (THB)					
Recurring EPS *	2.83	2.98	2.61	2.78	3.11
Reported EPS	1.92	2.61	2.60	2.78	3.11
DPS	2.00	1.00	1.04	1.25	1.40
Diluted shares (used to calculate per share data)	805	805	885	885	885
Growth					
Revenue (%)	23.3	14.2	0.5	3.7	7.8
Operating EBITDA (%)	21.4	15.1	2.9	4.5	9.1
Operating EBIT (%)	28.6	9.2	(2.4)	1.6	12.3
Recurring EPS (%)	26.5	5.4	(12.3)	6.5	11.8
Reported EPS (%)	(19.0)	36.0	(0.6)	7.2	11.8
Operating performance	(/		(3-3)		
Gross margin inc. depreciation (%)	13.8	13.5	13.0	13.0	13.4
Gross margin exc. depreciation (%)	19.3	19.5	19.6	19.9	20.1
Operating EBITDA margin (%)	14.8	14.9	15.3	15.4	15.6
Operating EBIT margin (%)	9.3	8.9	8.7	8.5	8.9
Net margin (%)	9.6	8.8	8.5	8.7	9.0
Effective tax rate (%)	3.3	4.9	4.5	4.5	4.5
Dividend payout on recurring profit (%)	70.8	33.6	39.7	45.0	45.0
Interest cover (X)	(20.9)	(29.9)	(42.2)	(13.8)	(14.7)
Inventory days	108.0	136.1	149.0	138.7	136.1
Debtor days	61.5	64.0	65.8	63.8	62.6
Creditor days	55.7	64.0	61.7	53.3	52.3
Operating ROIC (%)	12.1	10.2	8.8	8.4	9.0
ROIC (%)	11.6	9.9	8.6	8.2	8.8
ROE (%)	10.2	10.2	9.4	9.4	10.1
ROA (%)	8.3	8.1	7.6	7.6	8.2
* Pre-exceptional, pre-goodwill and fully diluted	8.3	ŏ. I	0.1	0.1	8.2
7 71 0	.0004	2000	2000	20045	20055
Revenue by Division (THB m)	2021	2022	2023E	2024E	2025E
PCBA	13,425	15,214	14,915	14,413	14,546
IC	9,394	10,595	11,019	11,687	13,073
IC Assemble (RFID / Microdisplay)	961	1,358	1,369	2,208	2,911

Sources: Hana Microelectronics; FSSIA estimates

Financial Statements

Hana Microelectronics

Cash Flow (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Recurring net profit	2,274	2,398	2,314	2,464	2,755
Depreciation	1,301	1,630	1,805	1,955	2,055
Associates & minorities	-	-	-	-	-
Other non-cash items	(455)	24	(16)	0	0
Change in working capital	(2,566)	(2,626)	197	(356)	(763)
Cash flow from operations Capex - maintenance	554	1,426	4,300	4,063	4,048
Capex - maintenance Capex - new investment	(4,026)	(2,821)	(3,500)	(3,000)	(2,000)
Net acquisitions & disposals	(4,020)	(2,021)	(3,300)	(3,000)	(2,000)
Other investments (net)	(99)	14	(12)	(20)	28
Cash flow from investing	(4,124)	(2,807)	(3,512)	(3,020)	(1,972)
Dividends paid	(1,382)	(1,191)	(941)	(1,109)	(1,240)
Equity finance	0	0	80	0	0
Debt finance	(5)	(2)	0	0	0
Other financing cash flows	1,289	209	(457)	10	(649)
Cash flow from financing	(98)	(984)	(1,317)	(1,099)	(1,889)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
Net other adjustments	0	0	0	0	0
Movement in cash	(3,668)	(2,365)	(529)	(56)	187
Free cash flow to firm (FCFF)	(3,562.70)	(1,368.15)	813.72	1,061.68	2,090.70
ree cash flow to equity (FCFE)	(2,285.87)	(1,174.20)	330.63	1,053.03	1,426.72
Per share (THB)					
FCFF per share	(4.02)	(1.55)	0.92	1.20	2.36
FCFE per share	(2.58)	(1.33)	0.37	1.19	1.61
Recurring cash flow per share	3.88	5.03	4.63	4.99	5.43
Balance Sheet (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Fangible fixed assets (gross)	26,004	28,300	31,800	34,800	36,800
Less: Accumulated depreciation	(16,342)	(17,446)	(19,251)	(21,206)	(23,261)
Fangible fixed assets (net)	9,663	10,853	12,549	13,594	13,539
ntangible fixed assets (net)	0	0	0	0	0
Long-term financial assets	72	72	72	72	0
nvest. in associates & subsidiaries	-	-	-	-	_
Cash & equivalents	5,999	3,634	3,105	3,049	3,236
A/C receivable	4,553	4,981	4,862	5,041	5,437
nventories	6,857	9,457	8,460	8,772	9,422
Other current assets	162	171	137	142	153
Current assets	17,570	18,243	16,564	17,004	18,247
Other assets	548	534	546	566	611
Total assets	27,853	29,703	29,731	31,236	32,397
Common equity	23,058	23,862	25,408	26,763	27,607
Minorities etc.	0	0	0	0	0
Total shareholders' equity	23,058	23,862	25,408	26,763	27,607
Long term debt	3	0	0	0	0
Other long-term liabilities	763	813	273	283	305
Long-term liabilities	766	814	273	283	305
A/C payable	3,506	4,161	3,254	3,374	3,624
Short term debt	8	274	250	250	250
Other current liabilities	515	593	546	566 4 190	611
Current liabilities Fotal liabilities and shareholders' equity	4,029 27,853	5,027 29,703	4,050 29,731	4,190 31,236	4,485 32,397
l otal liabilities and snarenolders' equity Net working capital	27,853 7,550	2 9,703 9,856	2 9,731 9,659	10,015	3 2,397 10,777
nvested capital	17,833	21,316	22,826	24,247	24,927
The steet capital Includes convertibles and preferred stock which is bei		21,010	22,020	27,2 1 1	27,321
<u> </u>	-				
Per share (THB)	00.05	20.05	00.70	00.00	04.40
Book value per share	28.65 28.65	29.65	28.70	30.23	31.18
Fangible book value per share Financial strength	28.00	29.65	28.70	30.23	31.18
•	(00.0)	(4.4.4)	(44.0)	(40.5)	(40.0)
Vet debt/equity (%)	(26.0)	(14.1)	(11.2)	(10.5)	(10.8)
Net debt/total assets (%)	(21.5)	(11.3)	(9.6)	(9.0)	(9.2)
Current ratio (x) CF interest cover (x)	4.4 (15.3)	3.6 (19.3)	4.1 (67.3)	4.1 (22.3)	4.1 (17.7)
/aluation	2021	2022	2023E	2024E	2025E
Recurring P/E (x) *	20.3	19.3	22.0	20.7	18.5
Recurring P/E @ target price (x) *	22.6	21.5	24.5	23.0	20.6
Reported P/E (x)	29.9	22.0	22.2	20.7	18.5
Dividend yield (%)	3.5	1.7	1.8	2.2	2.4
Price/book (x)	2.0	1.9	2.0	1.9	1.8
Price/tangible book (x)	2.0	1.9	2.0	1.9	1.8
EV/EBITDA (x) **	11.4	10.6	11.5	11.0	10.1
EV/EBITDA @ target price (x) **	12.9	11.9	12.9	12.4	11.3
EV/invested capital (x)	2.3	2.0	2.1	2.0	1.9

Sources: Hana Microelectronics; FSSIA estimates

Hana Microelectronics PCL (HANA TB)

FSSIA ESG rating

★ ★ ★

Exhibit 15: FSSIA ESG score implication

47.25 /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.
**	>20-39	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 16: ESG – peer comparison

	FSSIA			Dome	estic ratings					Glob	al ratings			Bloomberg		
	ESG score	DJSI	SET THSI	THSI	CG score	AGM level	Thai CAC	Morningstar	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score	
SET100	61.4	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	59.3	5.15	4.14	4.16	4.84	4.70	3.56	Medium	52.11	BB	17.11	57.13	62.51	3.41	31.94	
DELTA	79.66	Υ	Υ	Υ	5.00	5.00	Certified	Low	68.81	AA		91.19	74.00	4.15		
HANA	47.25		Y	Υ	5.00	5.00	Certified	Negligible	56.93	BBB		44.01	31.00	1.81		
KCE	36.85				5.00	5.00	Certified	Medium	52.70			61.53	16.00	2.16	52.98	
SVI	16.25				5.00	4.00	Certified						18.00	2.00	49.49	

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

Exhibit 17: 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	No	No	No	No	No	No	N
Climate change policy	No	No	No	No	No	No	N
Climate change opportunities discussed	No	No	No	No	No	No	N
Risks of climate change discussed	No	No	No	No	No	No	N
GHG scope 1	_	_	_	_	1	1	
GHG scope 2 location-based	_	_	_	26	26	23	2
GHG Scope 3	_	_	_	_	_	_	_
Carbon per unit of production	_	_	_	_	_	_	_
Biodiversity policy	No	No	No	No	No	No	N
Energy efficiency policy	No	No	No	No	No	No	N
Total energy consumption	_	_	_	_	_	_	_
Renewable energy use	_	_	_	_	_	_	_
Electricity used	_	_	_	_	_	_	_
Fuel used - natural gas	_	_	_	_	_	_	_
Fuel used - crude oil/diesel	No	No	No	No	No	No	N
Waste reduction policy	No	No	No	No	No	No	N
Hazardous waste	_	_	_	_	_	_	_
Total waste	_	_	_	_	_	_	_
Waste recycled	_	_	_	_	_	_	-
Waste sent to landfills	_	_	_	_	_	_	-
Environmental supply chain management	No	No	No	No	No	No	N
Water policy	No	No	No	No	No	No	N
Water consumption	_	_	_	_	_	_	_

Sources: Bloomberg; FSSIA's compilation

Exhibit 18: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 202
Social							
Human rights policy	No	No	No	No	No	No	No
Policy against child labor	No	No	No	No	No	No	N
Quality assurance and recall policy	No	No	No	No	No	No	N
Consumer data protection policy	No	No	No	No	No	No	N
Equal opportunity policy	No	No	No	No	No	No	N
Gender pay gap breakout	No	No	No	No	No	No	N
Pct women in workforce	_	_	_	73.00	73.00	72.00	_
Pct disabled in workforce	_	_	_	0.99	1.04	1.06	-
Business ethics policy	No	No	No	No	No	No	N
Anti-bribery ethics policy	No	No	No	No	No	No	N
Health and safety policy	No	No	No	No	No	No	N
Lost time incident rate - employees	_	_	_	0.03	0.02	0.04	_
Total recordable incident rate - employees	_	_	_	_	_	_	_
Training policy	No	No	No	No	No	No	N
Fair remuneration policy	No	No	No	No	No	No	N
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	150,14
Social supply chain management	No	No	No	No	No	No	N
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	No	No	No	No	No	No	N
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	10
	100	100	100	100	100	100	IC
Sustainability governance							

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 ann Only the top- inclusion.	ed on the com ual S&P Glob ranked compa	transparent, rules-based panies' Total Sustainabili al Corporate Sustainabilit anies within each industry	ity Scores resulting ty Assessment (CSA). y are selected for	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global ESG Score of less than 45% of the S&P Global ESG Score of the highest scoring company are disqualified. The constituents of the DJSI indices are selected from the Eligible Universe.						
Sustainability Investment List (THSI) by The Stock Exchange of Thailand (SET)	managing bu Candidates r conditions: 1 and 2) free fl >15% of paid score of belo executives' w	usiness with tranust pass the) no irregular to oat of >150 standard capital. Sow 70%; 2) indevrongdoing rel	lity in Environmental and ansparency in Governanc preemptive criteria, with tading of the board mem nareholders, and combine iome key disqualifying crit lependent directors and frought lated to CG, social & environd and 5) earnings in red for	ce, updated annually. two crucial bers and executives; ed holding must be teria include: 1) CG ree float violation; 3) ironmental impacts; 4)	To be eligible for <u>THSI inclusion</u> , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. <u>SETTHSI Index</u> is extended from the THSI companies whose 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight a maximum, and no cap for number of stocks.						
CG Score by Thai Institute of Directors Association (Thai IOD)	annually by t Thailand (SE	he Thai IOD, v	h in sustainable developn with support from the Sto is are from the perspective s.	ck Exchange of	Scores are rated in six categories: 5 for Excellent (90-100), 4 for Very Good (80-89), 3 for Good (70-79), 2 for Fair (60-69), 1 for Pass (60-69), and not rated for scores below 50. Weightings include: 1) the rights; 2) an equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).						
AGM level By Thai Investors Association (TIA) with support from the SEC	treatment are transparent a out of five the assessment the meeting of advance circularights can be e transparency a	e incorporated and sufficiently e CG compon- criteria cover . date (45%), an ation of sufficien xercised. The se and verifiability; a	which shareholders' rights into business operations y disclosed. All form imposents to be evaluated announced after the meeting (10% at information for voting; and 2 econd assesses 1) the ease of and 3) openness for Q&A. The operation discussion issues, resonant in the property of the	s and information is ortant elements of two ually. The the meeting (45%), at 6). (The first assesses 1):) facilitating how voting of attending meetings; 2) to third involves the	The scores are classified into four categories: 5 for Excellent (100), 4 for Very Good (90-99), 3 for Fair (80-89), and not rated for scores below 79.						
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	establishmer policies. The (Companies de Declaration of Certification, in managers and	nt of key control Certification is aciding to become to kick off including risk assets.	Checklist include corruption ols, and the monitoring an sign good for three years. The a CAC certified member steam 18-month deadline to subject an 18-month of whistleblowing of the stakeholders.)	nd developing of art by submitting a mit the CAC Checklist for ad 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 unmar	assessment on aged. <i>Sources</i>	sk rating provides an over of how much of a compan of to be reviewed include corpor or media, NGO reports/webs.	A company's ESG risk rating score is the sum of unmanaged risk. The more risk is unmanaged, the higher ESG risk is scored.							
	information, co		k, ESG controversies, issuer f		NEGL 0-10	Low 10-20	Medium 20-30	High 30-40	Severe 40+		
ESG Book	The ESG sco positioned to the principle helps explair over-weightir	ore identifies so outperform of of financial manding of future risk-ac	sustainable companies that ver the long term. The me ateriality including informa djusted performance. Mat th higher materiality and r	ethodology considers ation that significantly reriality is applied by	The total ESG score is calculated as a weighted sum of the features scores using materiality-based weights. The score is scaled between 0 and 100 with higher scores indicating better performance.						
<u>MSCI</u>			measure a company's ma laggards according to the							ology to	
	AAA	8.571-10.000		•		, ,		·	· • · · · · · · · · · · · · · · · · · ·		
	AA	7.143-8.570)	leading its industry in in	managing the most significant ESG risks and opportunities						
	A BBB	5.714-7.142 4.286-5.713		a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to							
	ВВ	2.857-4.285	=	industry peers							
	В	1.429-2.856	Laggard:	lagging its industry bas	ed on its high expe	osure and failu	re to manage sigr	nificant ESG ris	sks		
Moody's ESG solutions	believes that	a company in	gree to which companies to tegrating ESG factors into or shareholders over the r	to its business model an							
Refinitiv ESG rating	Designed to based on pul	transparently blicly available	and objectively measure e and auditable data. The ta publicly. (Score ratings ar	a company's relative ES score ranges from 0 to	100 on relative	ESG perforn	nance and insu	fficient degr			
S&P Global			re is a relative score mea in the same industry class				ent of ESG risks	s, opportunit	ies, and impa	cts	
Bloomberg	ESG Score Bloomberg score evaluating the company's aggregated Environmental, Social and Governance (ESG) performance. The 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.										

Source: FSSIA's compilation

HANA TB Sureeporn Teewasuwet Hana Microelectronics

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

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History of change in investment rating and/or target price



07-Mar-2023 HOLD BUY BUY 60.00 22-May-2023 46.00 21-Aug-2023 67.00

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 57.50	BUY	Downside risks to our P/E-based TP include 1) a slower-than-expected consumption recovery; 2) a potential rise in raw material costs; and 3) a stronger-than-expected THB against USD.

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 17-Oct-2023 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.