#### EQUITY RESEARCH - COMPANY REPORT

# DELTA ELECTRONICS

# 10 10 10, but valuations are demanding

- In the short run, 4Q23 profit should weaken, in line with seasonality. However, DELTA still maintained its mid to long-term bullish stance amid a cautious view over the global economic slowdown.
- EV Power remains a driver for 2024, but we do not see any new upside.
- We like its profit growth story and solid balance sheet. However, DELTA is still fully valued.

#### A neutral view of the latest analyst meeting

The analyst meeting ended with a neutral tone. In the short run, 4Q23 profit should weaken in line with seasonality. However, DELTA still maintained its mid to long-term bullish view, with an initial 2024 double-digit revenue growth target of no less than 15-20% y-y, continued healthy growth from 2023E of c23.5% y-y, driven mainly by EV power after DELTA had more than doubled its capacity in 2023 and would expand it by another 40%-50% by 2024 to cope with solid purchase orders. Also, DELTA anticipated Data Center and Fan & Thermal Management to report a moderate growth of 5-10% y-y. Despite that, it maintained its cautious view of the global economy since it may affect demand more than expected.

#### 4Q23 profit should weaken, in tandem with seasonality

DELTA reported a 9M23 net profit and normalized earnings of THB13,711m (+23% y-y) and THB12,942m (+28.6% y-y), respectively. Initially, we expect a 4Q23 core profit of THB4,641m (-8% q-q, +3% y-y). It would weaken q-q, in line with seasonality. However, it should edge up y-y due partly to customers postponing some of their projects to next year and substantial EV power deliveries in 3Q23. Meanwhile, Data Center should slow, in line with its seasonal pattern. In particular, DELTA indicated that Fan would see an impact from lower demand from European customers.

#### Maintain 2023-24E profit but do not see any upside

Given a drastically weaker-than-expected gross margin outlook due to changes in the product mix and an inventory provision that eased slower than expected but should improve from 4Q23 onwards and better-than-expected revenue, we have revised our 2023-25 assumption by increasing our revenue estimate by 4.5%/5.6%/4.3%, respectively, which fully offsets a lower gross margin projection. After the revision, our profit forecast is almost unchanged. To elaborate, we expect a 2023 profit of THB17,584m (+20.7% y-y). Also, 2024 core profit growth should accelerate to 24% y-y to THB21,814m. DELTA invested cUSD280m in 2023 and plans continued investment of cUS\$300-330m in 2024, given its solid balance sheet with a low D/E ratio of only 0.6x.

#### Strong growth and solid balance sheet but fully valued

We maintain our 2024 TP of THB70 (PE 40x, unchanged) based on an aggressive profit forecast and PE target. Although we like its growth story and solid balance sheet, its share price is fully valued. Also, the stock trades at demanding valuations of 43.6x and 37.7x of 2024-25E PE, respectively.



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FSSIA ESG rating

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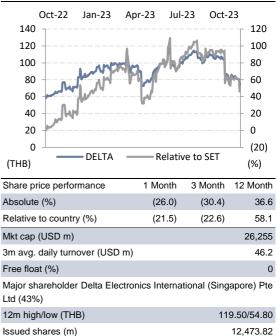
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TARGET PRICE	THB70.00
CLOSE	THB76.25
UP/DOWNSIDE	-8.2%
PRIOR TP	THB70.00
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	-6.8%

# **KEY STOCK DATA**

**DELTA TB** 

YE Dec (THB m)	2022	2023E	2024E	2025E
Revenue	118,558	146,417	169,347	189,942
Net profit	15,343	18,353	21,814	25,242
EPS (THB)	1.23	1.47	1.75	2.02
vs Consensus (%)	-	6.3	8.7	4.8
EBITDA	18,240	22,203	26,730	30,509
Recurring net profit	14,563	17,584	21,814	25,242
Core EPS (THB)	1.17	1.41	1.75	2.02
Chg. In EPS est. (%)	-	(0.1)	0.5	0.2
EPS growth (%)	139.7	20.7	24.1	15.7
Core P/E (x)	65.3	54.1	43.6	37.7
Dividend yield (%)	0.5	1.0	1.1	1.3
EV/EBITDA (x)	51.7	42.5	35.4	30.9
Price/book (x)	17.4	14.6	12.5	11.1
Net debt/Equity (%)	(15.0)	(10.2)	(6.9)	(8.6)
ROE (%)	30.3	29.3	30.8	31.2



Sources: Bloomberg consensus; FSSIA estimates

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#### **Investment thesis**

We have a bullish view of DELTA's growth, given its main product, i.e., power supply, which is crucial to several product groups, such as automotive, industrial, data center, cloud computing, and medical. Besides, DELTA has expanded to downstream businesses, such as EV power and EV battery chargers, telecommunication infrastructure, and regional energy management.

However, DELTA is fully valued, in our view. It is trading at a high 2023-24E PE of 54x and 43.6x, respectively, higher than its historical average and electronic component peers' average.

#### **Company profile**

DELTA is an electronics manufacturer and exporter of power supplies and electronic components comprising cooling fans, EMI filters, and solenoids. Key power management products consist of switching power supplies, EV chargers, DC-DC converters, and solar inverters. Its operations cover regions such as Asia, Europe, and South America. In 2022, its revenue contribution came mainly from power electronics at 77%, with infrastructure/automation/others at 20.4%/2.5%/0.1%, respectively.

www.deltathailand.com

#### Catalysts

Potential catalysts for DELTA's earnings growth in 2023 are 1) stronger purchase orders for data centre and EV car components; 2) a decline in raw material costs; and 3) a faster-than-expected capacity expansion.

#### **Risks to our call**

Upside risks to our P/E-based TP include 1) higher-thanexpected global EV car sales; 2) lower-than-expected raw material costs; and 3) a weaker-than-expected THB against USD.

#### **Event calendar**

 Date
 Event

 February 2024
 2023 results announcement

#### Principal activities (revenue, 2022)

- Power electronics 77.0 %
- Infrastructure 20.4 %
- Automation 2.5 %
- Others 0.1 %

Source: Delta Electronics

#### **Major shareholders**

- Delta Electronics International (Singapore) Pte Ltd - 42.9 %
- Delta International Holding Limited - 15.4 %
- Delta Electronics Inc. 13.9 %



Source: Delta Electronics

Others - 27.9 %

#### **Key assumptions**

	2023E	2024E	2025E
Power electronics (USD m)	3,437	4,252	4,805
Infrastructure (USD m)	635	752	805
Automation (USD m)	107	123	142
Total revenue (USD m)	4,183	5,132	5,756
FX rate (USD/THB)	35.0	33.0	33.0
Gross margin (%)	22.6	23.1	23.5

Source: FSSIA estimates

#### Earnings sensitivity

- For every 1% increase in USD revenue, we estimate 2023 net profit to rise by 0.9%, and vice versa, all else being equal.
- For every THB1/USD increase, we estimate 2023 net profit to fall by 6.5%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2023 net profit to rise by 3.4%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2023 net profit to fall by 1.8%, and vice versa, all else being equal.

Source: FSSIA estimates

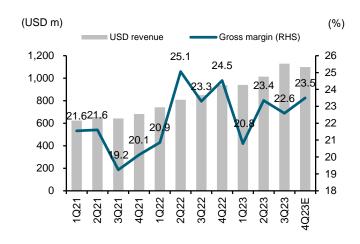


#### Exhibit 1: 4Q23 earnings preview

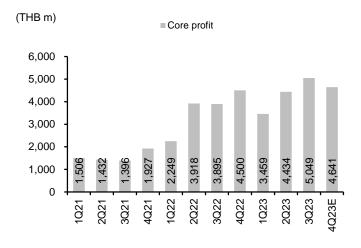
	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23E	Cha	nge	2022	2023E	Change
	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)					
Sales	31,324	34,606	32,294	35,840	40,478	38,067	(6.0)	10.0	118,558	146,417	23.5
Cost of sales	24,027	26,117	25,581	27,472	31,333	29,121	(7.1)	11.5	90,618	113,327	25.1
Gross profit	7,298	8,489	6,713	8,369	9,145	8,946	(2.2)	5.4	27,940	33,090	18.4
SG&A	3,524	3,829	3,236	3,796	4,098	4,035	(1.5)	5.4	13,447	15,081	12.1
Operating profit	3,774	4,661	3,477	4,573	5,047	4,911	(2.7)	5.4	14,493	18,009	24.3
Othe income	204	182	192	265	355	100	(71.9)	(45.2)	613	922	50.6
Interest expense	0	12	25	22	34	23	(31.8)	90.5	20	110	462.8
Tax expense	65	314	121	279	167	296	77.7	(5.7)	467	867	85.7
Other gain (Loss)	215	(311)	155	234	380	0	nm	nm	781	769	(1.5)
Reported net profit	4,110	4,190	3,614	4,668	5,429	4,641	(14.5)	10.8	15,343	18,353	19.6
Core profit	3,895	4,500	3,459	4,434	5,049	4,641	(8.1)	3.1	14,563	17,584	20.7
Key Ratios (%)							(ppt)	(ppt)			(ppt)
Gross margin	23.3	24.5	20.8	23.4	22.6	23.5	0.9	(1.0)	23.6	22.6	(1.0)
SG&A / Sales	11.2	11.1	10.0	10.6	10.1	10.6	0.5	(0.5)	11.3	10.3	(1.0)
Operating margin	12.0	13.5	10.8	12.8	12.5	12.9	0.4	(0.6)	12.2	12.3	0.1
Net margin	13.1	12.1	11.2	13.0	13.4	12.2	(1.2)	0.1	12.9	12.5	(0.4)
Core margin	12.4	13.0	10.7	12.4	12.5	12.2	(0.3)	(0.8)	12.3	12.0	(0.3)
Operating Statistics											
THB total revenue (THB m)	31,324	34,606	32,294	35,840	40,478	38,067	(6.0)	10.0	118,558	146,417	23.5
FX rate (THB/USD)	36.4	36.4	33.9	34.5	34.9	36.0	3.0	(1.1)	35.5	35.0	(1.5)
USD total revenue (USD m)	849	939	940	1,014	1,129	1,100	(2.6)	17.1	3,337	4,183	25.4
Revenue by segment (USD m)											
Power Electronics	667	727	726	827	955	929	15.5	43.2	2,562	3,437	34.2
Infrastructure	161	188	183	158	147	147	(7.0)	(8.7)	686	635	(7.4)
Automation	20	23	30	29	25	23	(13.8)	25.0	85	107	25.9

Sources: DELTA; FSSIA estimates

#### Exhibit 2: Quarterly USD revenue and gross margin



#### Exhibit 3: Quarterly core profit



Sources: DELTA, FSSIA estimates

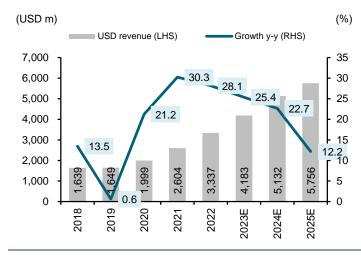
Sources: DELTA, FSSIA estimates

#### Exhibit 4: Key assumptions for DELTA

		Current			Previous		Change			
	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	
	(THB m)	(THB m)	(%)	(%)	(%)					
Total sale value (THB m)	146,417	169,347	189,942	132,145	160,359	182,184	10.8	5.6	4.3	
Costs	113,327	130,228	145,306	100,430	121,552	137,549	12.8	7.1	5.6	
Gross profit	33,090	39,119	44,636	31,715	38,807	44,635	4.3	0.8	0.0	
SG&A expense	15,081	17,273	19,374	14,536	17,640	20,040	3.7	(2.1)	(3.3)	
Interest expense	110	100	95	14	12	12	695.9	721.5	674.6	
Reported net profit	18,353	21,814	25,242	17,599	21,695	25,192	4.3	0.5	0.2	
Core profit	17,584	21,814	25,242	17,599	21,695	25,192	(0.1)	0.5	0.2	
Key ratios (%)										
Total revenue growth	23.5	15.7	12.2	11.5	21.4	13.6	12.0	(5.7)	(1.4)	
Net profit growth	19.6	18.9	15.7	14.7	23.3	16.1	4.9	(4.4)	(0.4)	
Core profit growth	20.7	24.1	15.7	20.9	23.3	16.1	(0.1)	0.8	(0.4)	
Gross margin	22.6	23.1	23.5	24.0	24.2	24.5	(1.4)	(1.1)	(1.0)	
SG&A to sales	10.3	10.2	10.2	11.0	11.0	11.0	(0.7)	(0.8)	(0.8)	
Net margin	12.5	12.9	13.3	13.3	13.5	13.8	(0.8)	(0.6)	(0.5)	
Core margin	12.0	12.9	13.3	13.3	13.5	13.8	(1.3)	(0.6)	(0.5)	
Operating statistics										
Total revenue (USD m)	4,183	5,132	5,756	4,004	4,859	5,521	4.5	5.6	4.3	
FX rate (THB/USD)	35.0	33.0	33.0	33.0	33.0	33.0	6.1	0.0	0.0	
Power electronics (USD m)	3,437	4,252	4,805	3,181	3,977	4,573	8.0	6.9	5.1	
Infrastructure (USD m)	635	752	805	720	771	825	(11.8)	(2.4)	(2.4)	
Automation (USD m)	107	123	142	99	109	120	8.2	13.1	18.2	

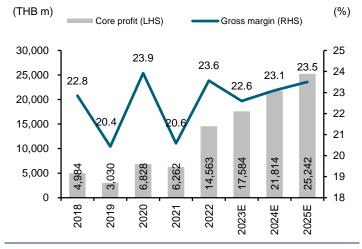
Source: FSSIA estimates

#### Exhibit 5: Yearly USD revenue and growth



Sources: DELTA; FSSIA estimates

#### Exhibit 6: Yearly core profit and gross margin



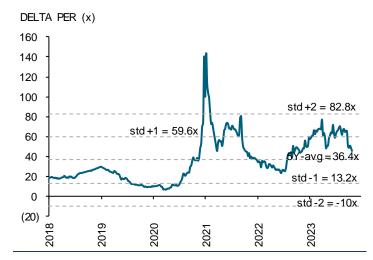
Sources: DELTA; FSSIA estimates

#### Exhibit 7: Peers comparison

Company	BBG	Rec	S	hare price	9	Market	P	РЕ	R	0E	Pl	BV	EV/EI	BITDA
			Current	Target	Upside	Сар	23E	24E	23E	24E	23E	24E	23E	24E
			(LCY)	(LCY)	(%)	(USD m)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
Thailand														
Delta Electronics (Thailand)*	DELTA TB	REDUCE	76.25	70.00	(8)	26,255	54.1	43.6	29.3	30.8	14.6	12.5	42.5	35.4
KCE Electronics*	KCE TB	HOLD	51.75	60.00	16	1,689	34.3	23.3	13.1	18.5	4.4	4.2	19.7	15.1
Hana Microelectronics	HANA TB	BUY	53.50	64.00	20	1,308	20.5	19.2	9.4	9.4	1.9	1.8	10.7	10.2
SVI	SVI TB	n/a	7.10	n/a	n/a	421	13.6	11.1	16.0	18.0	2.2	2.0	11.7	10.3
Cal-Comp Electronics	CCET TB	n/a	1.52	n/a	n/a	246	n/a	n/a						
Stars Microelectronics	SMT TB	n/a	4.80	n/a	n/a	115	n/a	n/a						
Thailand average						30,033	30.6	24.3	17.0	19.2	5.8	5.1	21.1	17.8
Regional														
Taiwan Semiconductor	2330 TT	n/a	532.00	n/a	n/a	425,719	16.8	14.2	25.3	25.2	4.0	3.3	9.1	7.4
STMicroelectronics	STMPA FP	n/a	37.54	n/a	n/a	36,073	9.3	9.8	27.5	21.4	2.2	1.8	5.4	5.4
ROHM	6963 JP	n/a	2,492.50	n/a	n/a	6,869	12.4	14.8	9.2	7.0	1.1	1.0	5.1	5.1
Infineon	IFX GR	n/a	28.83	n/a	n/a	40,180	11.2	11.6	20.6	17.3	2.3	2.0	7.0	6.9
Mitsubishi Electric	6503 JP	n/a	1,698.00	n/a	n/a	24,388	16.5	14.0	7.1	7.5	1.1	1.1	7.4	6.7
On Semiconductor	ON US	n/a	83.52	n/a	n/a	36,041	16.0	14.7	30.7	26.2	4.4	3.4	11.2	10.3
SMIC	688981 CH	n/a	58.30	n/a	n/a	34,047	72.0	60.8	4.1	4.8	3.2	2.7	14.1	11.5
Regional average						603,317	22.0	20.0	17.8	15.6	2.6	2.2	8.5	7.6
Overall average						633,350	25.1	21.6	17.5	16.9	3.8	3.3	13.1	11.3

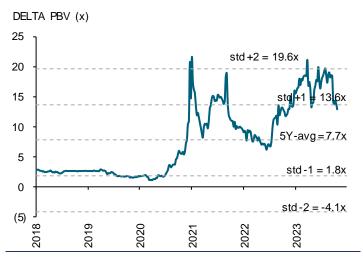
Sources: Bloomberg, FSSIA estimates

#### Exhibit 8: Historical P/E band



Sources: Bloomberg, FSSIA estimates

#### Exhibit 9: Historical P/BV band



Sources: Bloomberg, FSSIA estimates

## **Financial Statements**

**Delta Electronics** 

Profit and Loss (THB m) Year Ending Dec	2021	2022	2023E	2024E	20258
Revenue	84,318	118,558	146,417	169,347	189,942
Cost of goods sold	(66,960)	(90,618)	(113,327)	(130,228)	(145,306
Gross profit	17,358	27,940	33,090	39,119	44,630
Other operating income	496	613	922	1,016	1,140
Operating costs	(11,674)	(13,502)	(15,450)	(17,545)	(19,657
Operating EBITDA	8,688	18,240	22,203	26,730	30,509
Depreciation	(2,508)	(3,190)	(3,640)	(4,140)	(4,390
Goodwill amortisation	0	0	0	0	(
Operating EBIT	6,181	15,050	18,563	22,590	26,119
Net financing costs	(4)	(20)	(110)	(100)	(95
Associates	0	()	0	0	(00
Recurring non-operating income	0	0	0	0	(
	624	781	769	0	(
Non-recurring items					
Profit before tax	6,801	15,811	19,222	22,490	26,02
Tax	(98)	(467)	(867)	(675)	(781
Profit after tax	6,703	15,345	18,355	21,816	25,244
Minority interests	(4)	(1)	(2)	(2)	(2
Preferred dividends	0	0	0	0	(
Other items	-	-	-	-	
Reported net profit	6,699	15,343	18,353	21,814	25,242
Non-recurring items & goodwill (net)	(624)	(781)	(769)	0	(
Recurring net profit	6,075	14,563	17,584	21,814	25,242
Per share (THB)					
Recurring EPS *	0.49	1.17	1.41	1.75	2.02
Reported EPS	0.54	1.23	1.47	1.75	2.02
DPS	0.17	0.40	0.74	0.87	1.0 <sup>4</sup>
Diluted shares (used to calculate per share data)	12,474	12,474	12,474	12,474	12,474
Growth					
Revenue (%)	33.4	40.6	23.5	15.7	12.2
Operating EBITDA (%)	(4.7)	109.9	21.7	20.4	14.1
Operating EBIT (%)	(10.5)	143.5	23.3	21.7	15.0
Recurring EPS (%)	(10.8)	139.7	20.7	24.1	15.3
Reported EPS (%)	(5.7)	129.0	19.6	18.9	15.7
Operating performance	(- )				
Gross margin inc. depreciation (%)	20.6	23.6	22.6	23.1	23.
Gross margin exc. depreciation (%)	23.6	26.3	25.1	25.5	25.8
Operating EBITDA margin (%)	10.3	15.4	15.2	15.8	23.0 16.1
Operating EBIT Margin (%)	7.3	12.7	12.7	13.3	13.8
Net margin (%)	7.3	12.7	12.7	13.3	13.0
Effective tax rate (%)	1.4	3.0	4.5	3.0	3.0
Dividend payout on recurring profit (%)	34.9	34.3	52.2	50.0	50.0
nterest cover (X)	1,534.8	771.2	169.0	225.4	276.4
Inventory days	91.3	93.2	90.8	91.8	92.9
Debtor days	74.9	75.0	75.1	74.6	75.7
Creditor days	108.3	109.1	101.9	96.6	95.3
Operating ROIC (%)	16.0	28.3	27.6	27.4	27.9
ROIC (%)	15.0	27.1	26.5	26.3	26.
ROE (%)	15.4	30.3	29.3	30.8	31.2
ROA (%)	9.6	18.2	18.1	19.6	20.2
* Pre-exceptional, pre-goodwill and fully diluted					
Revenue by Division (THB m)	2021	2022	2023E	2024E	2025
Power electronics	61,369	91,252	120,307	140,316	158,557
Infrastructure	20,685	24,185	22,225	24,832	26,570
Automation	2,098	3,009	3,745	4,061	4,670
	,	,	., -	,	,

Sources: Delta Electronics; FSSIA estimates

## **Financial Statements**

Delta Electronics

Delta Electronics					
Cash Flow (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
Recurring net profit	6,075	14,563	17,584	21,814	25,242
Depreciation	2,508	3,190	3,640	4,140	4,390
ssociates & minorities	-	-	-	-	-
ther non-cash items	-	-	0	0	C
change in working capital	(7,651)	(5,108)	(7,618)	(5,170)	(6,504)
ash flow from operations	931	12,644	13,605	20,783	23,127
Capex - maintenance	-	-	-	-	-
Capex - new investment	(8,367)	(7,788)	(9,000)	(10,000)	(5,000)
let acquisitions & disposals	-	-	-	-	-
Other investments (net)	52	213	(856)	(275)	(817)
Cash flow from investing	(8,315)	(7,575)	(9,856)	(10,275)	(5,817)
Dividends paid	(4,139)	(1,855)	(9,176)	(10,907)	(12,621)
quity finance	0	0	0	0	C
Debt finance	2,975	569	2,615	(1,184)	306
Other financing cash flows	1,237	(213)	1,450	0	(3,000)
Cash flow from financing	73	(1,499)	(5,111)	(12,090)	(15,315)
Non-recurring cash flows	-	-	-	-	
Other adjustments	0	0	0	0	0
let other adjustments	0	0	0	0	0
Novement in cash	(7,310)	3,571	(1,361)	(1,582)	1,995
ree cash flow to firm (FCFF)	(7,379.42)	5,088.89	3,859.63	10,608.52	17,404.92
ree cash flow to equity (FCFE)	(3,171.33)	5,425.24	7,815.00	9,324.72	14,616.33
er share (THB)					
CFF per share	(0.59)	0.41	0.31	0.85	1.40
CFE per share	(0.25)	0.43	0.63	0.75	1.17
Recurring cash flow per share	0.69	1.42	1.70	2.08	2.38
alance Sheet (THB m) Year Ending Dec	2021	2022	2023E	2024E	2025E
angible fixed assets (gross)	31,517	31,517	40.517	50,517	55,517
ess: Accumulated depreciation	(12,934)	(8,335)	(11,975)	(16,114)	(20,504)
angible fixed assets (net)	18,583	23,182	28,542	34,403	35,013
ntangible fixed assets (net)	693	629	629	629	629
ong-term financial assets	268	248	248	248	248
nvest. in associates & subsidiaries	-	-	-	-	-
Cash & equivalents	6,572	10,142	8,781	7,199	9,194
VC receivable	20,593	28,132	32,091	37,117	41,631
nventories	19,581	25,049	29,496	33,895	37,819
Dther current assets	2,019	2,702	2,928	3,387	3,799
Current assets	48,764	66,025	73,297	81,598	92,443
Other assets	1,030	901	1,757	2,032	2,849
fotal assets	69,338	90,984	104,472	118,909	131,182
Common equity	41,404	54,680	65,307	76,213	85,834
/inorities etc.	0	0	0	0	C
otal shareholders' equity	41,404	54,680	65,307	76,213	85,834
ong term debt	512	930	976	954	874
Other long-term liabilities	2,687	2,705	4,393	3,387	3,799
ong-term liabilities	3,198	3,635	5,369	4,341	4,673
VC payable	22,049	30,202	31,048	35,679	37,819
Short term debt	1,669	1,011	1,138	982	956
Other current liabilities	1,018	1,457	1,611	1,693	1,899
Current liabilities	24,736	32,670	33,797	38,354	40,675
otal liabilities and shareholders' equity	69,338	90,984	104,472	118,909	131,182
let working capital	19,126	24,225	31,857	37,027	43,531
nvested capital	39,700	49,184	63,032	74,338	82,269
Includes convertibles and preferred stock which is bei	ng treated as debt				
er share (THB)					
look value per share	3.32	4.38	5.24	6.11	6.88
angible book value per share	3.26	4.33	5.19	6.06	6.83
inancial strength					
let debt/equity (%)	(10.6)	(15.0)	(10.2)	(6.9)	(8.6)
let debt/total assets (%)	(6.3)	(9.0)	(6.4)	(4.4)	(5.6)
current ratio (x)	2.0	2.0	2.2	2.1	2.3
F interest cover (x)	1,291.1	678.1	154.1	193.8	208.6
aluation	2021	2022	2023E	2024E	2025E
ecurring P/E (x) *	156.6	65.3	54.1	43.6	37.7
ecurring P/E @ target price (x) *	143.7	60.0	49.7	40.0	34.6
reported P/E (x)	142.0	62.0	<b>49.7</b> 51.8	43.6	34.0
ividend yield (%)	0.2	0.5	1.0	43.0	1.3
rice/book (x)	23.0	17.4	14.6	12.5	11.1
rice/tangible book (x)	23.0	17.4	14.0	12.5	11.1
V/EBITDA (x) **	109.0	51.7	42.5	35.4	30.9
····	103.0				
V/FBITDA @ target price (x) **	100.0	Δ7 <i>Λ</i>	Run	325	/× /
V/EBITDA @ target price (x) ** V/invested capital (x)	100.0 23.8	47.4 19.2	39.0 15.0	32.5 12.7	28.4 11.5

Sources: Delta Electronics; FSSIA estimates



# **Delta Electronics Thailand (DELTA TB)**

**FSSIA ESG rating** 

 $\star \star \star \star \star$ 

87.59 /100

#### Exhibit 10: FSSIA ESG score implication

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.
$\star$	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 11: ESG – peer comparison

	FSSIA	Domestic ratings							Global 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		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	Y	Y	Y	5.00	5.00	Certified	Low	68.81	AA		91.19	74.00	4.15			
HANA	56.35		Y	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: SETTRADE.com; FSSIA's compilation

#### Exhibit 12: ESG score by Bloomberg

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	3.90	3.63	3.92	4.13	4.06	4.24	4.03	4.15
BESG environmental pillar score	4.87	4.68	5.12	5.75	5.33	5.80	5.25	—
BESG social pillar score	2.72	2.72	2.72	2.72	2.72	2.72	2.72	_
BESG governance pillar score	3.91	3.27	3.71	3.65	3.90	3.94	3.91	_
ESG disclosure score	61.65	63.10	63.96	60.99	65.87	67.09	68.34	_
Environmental disclosure score	59.71	63.03	65.00	63.03	63.03	69.86	70.52	_
Social disclosure score	37.79	38.82	39.42	32.47	47.13	43.95	47.07	_
Governance disclosure score	87.36	87.36	87.36	87.36	87.36	87.36	87.36	_
Environmental								
Emissions reduction initiatives	Yes							
Climate change policy	Yes							
Climate change opportunities discussed	No	No	No	No	No	No	Yes	Yes
Risks of climate change discussed	No	No	No	No	No	No	Yes	Yes
GHG scope 1	0	0	0	0	0	1	1	1
GHG scope 2 location-based	40	41	40	39	42	40	51	60
GHG Scope 3	—	28	19	46	40	82	127	167
Carbon per unit of production	_	_	_	_	_	_	_	_
Biodiversity policy	Yes							
Energy efficiency policy	Yes							
Total energy consumption	76	80	80	92	84	80	102	121
Renewable energy use	0	0	3	7	9	10	10	_
Electricity used	74	78	79	92	80	80	91	120
Fuel used - natural gas	_	_	_	_	_	196	233	_

Sources: Bloomberg; FSSIA's compilation

## Exhibit 13: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No	No						
Waste reduction policy	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hazardous waste	0	0	0	0	0	0	0	0
Total waste	2	2	2	2	3	6	8	9
Waste recycled	1	2	2	2	3	4	4	5
Waste sent to landfills	0	0	0	0	0	0	0	0
Environmental supply chain management	Yes	Yes						
Water policy	Yes	Yes						
Water consumption	-	-	-	-	_	434	445	536
Social								
Human rights policy	Yes	Yes						
Policy against child labor	Yes	Yes						
Quality assurance and recall policy	Yes	Yes						
Consumer data protection policy	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Equal opportunity policy	Yes	Yes						
Gender pay gap breakout	No	No	No	No	Yes	Yes	Yes	No
Pct women in workforce	84	80	75	71	71	65	69	_
Pct disabled in workforce	—	_	_	_	—	—	—	-
Business ethics policy	Yes	Yes						
Anti-bribery ethics policy	Yes	Yes						
Health and safety policy	Yes	Yes						
Lost time incident rate - employees	—	—	—	—	0	—	0	0
Total recordable incident rate - employees	1	1	0	0	1	0	_	—
Training policy	Yes	Yes						
Fair remuneration policy	No	No						
Number of employees – CSR	10,466	9,764	10,691	11,088	11,297	13,852	16,951	20,022
Employee turnover pct	13	11	_	—	7	6	7	3
Total hours spent by firm - employee training	131,464	96,865	115,161	128,431	168,455	678,748	1,017,000	1,561,720
Social supply chain management	Yes	Yes						
Governance								
Board size	9	8	8	9	9	9	9	9
No. of independent directors (ID)	4	3	3	4	4	4	4	4
No. of women on board	1	0	0	1	1	1	1	1
No. of non-executive directors on board	7	6	6	7	6	6	6	6
Company conducts board evaluations	Yes	Yes						
No. of board meetings for the year	5	5	6	6	6	5	5	6
Board meeting attendance pct	93	97	93	96	100	100	98	98
Board duration (years)	3	3	3	3	3	3	3	3
Director share ownership guidelines	No	No						
Age of the youngest director	52	53	54	55	52	53	54	61
Age of the oldest director	72	71	72	73	73	73	74	75
No. of executives / company managers	5	5	5	5	5	3	4	4
No. of female executives	1	1	1	1	0	0	1	1
Executive share ownership guidelines	No	No						
Size of audit committee	3	3	3	3	3	3	3	3
No. of ID on audit committee	3	3	3	3	3	3	3	3
Audit committee meetings	5	4	4	4	4	4	4	4
Audit meeting attendance %	100	90	92	100	100	100	100	100
Size of compensation committee	3	5	3	3	3	3	3	3
No. of ID on compensation committee	2	3	2	2	2	2	2	2
No. of compensation committee meetings	2	4	4	4	4	5	5	6
Compensation meeting attendance %	60	91	83	83	100	93	100	94
Size of nomination committee	3	5	3	3	3	3	3	3
No. of nomination committee meetings	2	4	4	4	4	5	5	6
Nomination meeting attendance %	60	91	83	83	100	93	100	94
Sustainability governance		-						
	Yes	Yes						

Sources: Bloomberg; FSSIA's compilation

## Disclaimer for ESG scoring

ESG score	Methodology				Rating					
The Dow Jones Sustainability Indices ( <u>DJSI</u> ) By S&P Global	process bas from the anr	ed on the com ual S&P Glob	transparent, rules-based o panies' Total Sustainabilit al Corporate Sustainability anies within each industry	ty Scores resulting y Assessment (CSA).	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Globa 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 ( <u>THSI</u> ) by The Stock Exchange of Thailand ( <u>SET</u> )	managing by Candidates conditions: 1 and 2) free f >15% of pai score of bely executives	usiness with tr must pass the ) no irregular loat of >150 sl d-up capital. S ow 70%; 2) inc wrongdoing re	lity in Environmental and a ansparency in Governanc preemptive criteria, with t trading of the board memil ararholders, and combine ome key disqualifying crit lependent directors and fr lated to CG, social & envir and 5) earnings in red fo	e, updated annually. wo crucial bers and executives; d holding must be eria include: 1) CG ee float violation; 3) ronmental 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 at maximum, and no cap for number of stocks.					
CG Score by Thai Institute of Directors Association ( <u>Thai IOD</u> )	annually by Thailand (SI	the Thai IOD,	h in sustainable developm with support from the Stor 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) and 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 ar transparent out of five th assessment the meeting advance circu rights can be transparency	e incorporatec and sufficiently e CG compon criteria cover date (45%), a lation of sufficien exercised. The s and verifiability; a	which shareholders' rights I into business operations y disclosed. All form impor- ents to be evaluated annu- AGM procedures before ti- nd after the meeting (10% tr information for voting; and 2, econd assesses 1) the ease o and 3) openness for Q&A. The ontain discussion issues, resol	and information is rtant elements of two ially. The he meeting (45%), at .). (The first assesses 1) facilitating how voting f attending meetings; 2) 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)	establishme policies. The (Companies of Declaration of Certification, ii managers and	nt of key contr e Certification i eciding to becon Intent to kick off including risk ass	Checklist include corruptio ols, and the monitoring ar s good for three years. he a CAC certified member sta an 18-month deadline to subr essment, in place of policy an ablishment of whistleblowing o Il stakeholders.)	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.						
<u>Morningstar</u> Sustainalytics	based on an risk is unma	sk rating provides an over of how much of a compan s to be reviewed include corpo rer media, NGO reports/websi	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 fe		<b>NEGL</b> 0-10	Low 10-20	Medium	High 30-40	Severe 40+	
					0-10	10-20	20-30	30-40	40+	
ESG Book	positioned to the principle helps explai over-weighti	o outperform o of financial m n future risk-ad	sustainable companies that ver the long term. The me ateriality including informa djusted performance. Mate th higher materiality and r rly basis.	ethodology considers ation that significantly eriality 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.					
MSCI		0	measure a company's ma							
	identify indu AAA	stry leaders ar 8.571-10.00	nd laggards according to t	·			•		ers.	
	AA	7.143-8.570	Leader:	leading its industry in n	nanaging the most significant ESG risks and opportunities					
	Α	5.714-7.142	2		ceptional track record of managing the most significant ESG risks and opportunities relative to					
	BBB	4.286-5.713	-	industry peers						
	BB	2.857-4.285								
	B CCC	1.429-2.856	Laggard:	lagging its industry bas	ed on its high expo	sure and failur	e to manage sign	ificant ESG ris	ks	
Moody's ESG solutions	Moody's ass believes tha	esses the dec t a company ir	ree to which companies to tegrating ESG factors into or shareholders over the n	o its business model an						
Refinitiv ESG rating	Designed to transparently and objectively measure a company's relative ESG performance, commitment and effectiveness across 10 main themes, based on publicly available and auditable data. The score ranges from 0 to 100 on relative ESG performance and insufficient degree of transparency in reporting material ESG data publicly. (Score ratings are 0 to 25 = poor; >25 to 50 = satisfactory; >50 to 75 = good; and >75 to 100 = excellent.)									
S&P Global	The S&P Global ESG Score is a relative score measuring a company's performance on and management of ESG risks, opportunities, and impacts compared to its peers within the same industry classification. The score ranges from 0 to 100.									
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.									
Bloomberg	ESG Disclosure Score Disclosure of a company's ESG used for Bloomberg ESG score. The score ranges from 0 for none to 100 for disclosure or every data point, measuring the amount of ESG data reported publicly, and not the performance on any data point.									

Source: FSSIA's compilation

### GENERAL DISCLAIMER

#### ANALYST(S) CERTIFICATION

#### Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

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#### History of change in investment rating and/or target price



Sureeporn Teewasuwet started covering this stock from 17-Feb-2023

Price and TP are in local currency

Source: FSSIA estimates

#### KCE Electronics (KCE TB)



Sureeporn Teewasuwet started covering this stock from 09-Feb-2023

Price and TP are in local currency

Source: FSSIA estimates





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
Delta Electronics	DELTA TB	THB 76.25	REDUCE	Upside risks to our P/E-based TP include 1) higher-than-expected global EV car sales; 2) lower-than-expected raw material costs; and 3) a weaker-than-expected THB against USD.
KCE Electronics	KCE TB	THB 51.75	HOLD	Downside and upside risks to our P/E-based TP include 1) sooner- or later-than-expected global economic and car sales recoveries; 2) higher- or lower-than-expected increase or decrease in raw material costs; 3) a stronger or weaker-than-expected increase or decrease in THB; and 4) a minimum wage increase or a labour shortage.
Hana Microelectronics	HANA TB	THB 53.50	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 27-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.

