BOCOM Int'l Research

Company Update



Technology	Last Close	Target Price	Upside	14 June 2018			
	HK\$4.22	НК\$5.80个	+37%				
Lenovo Group (992 HK)							

Earnings to rebound; upgrade to non-consensus Buy

- Turning more confident in DCG: We turn more confident in Lenovo's server business given (1) YoY growth in its server market share for the first time in six quarters to 6.5% in 1Q18 (vs. 5.8% in 1Q17), per Gartner data; (2) strong near-term order momentum; (3) strong ASP hike due to mix shift to Software-Defined Infrastructure (SDI) and High Performance Computing (HPC), with more room for growth; and (4) improving margins helped by better mix, but still meaningfully below industry average. We forecast 1QFY19 Data Center Business Group (DCG) revenue to rise 51% YoY on strong order momentum and mix shift towards HPC/SDI driving ASP. We expect pre-tax margin improvement to continue.
- PC still a cash cow; smartphone unlikely to get any worse: We believe stabilizing memory prices and continued display pricing decline in the near term should help keep PC PTI margin stable at ~4.5-5.0%. We are encouraged by management commentary that smartphone restructuring is largely over (cutting cost in Asia-Pacific). While we remain cautious on its smartphone business, we believe it is unlikely to get any worse, and see goodwill write-down as less likely.
- Street earnings outlook overly pessimistic: We believe the market remains overly pessimistic on Lenovo (high short sell ratios/mostly rated sell or neutral by the brokers). We expect FY19 pre-tax profit to reach US\$641m (vs. FY17/18 of US\$490m/153m), above Bloomberg consensus of US\$549m. We expect improving profit over the next 2-3 quarters and Street estimates upgrade to fuel a share rally. We expect Lenovo PTI to reach US\$91m/153m in 1Q/2QFY19 (vs. 1Q/2QFY18: US\$ -69m/35m).
- Non-consensus Buy call; trading opportunity over next six months: We raise our FY19/20E EPS by 3%/16% to reflect a more bullish outlook on DCG, partly offset by higher finance cost and minority interest (from selling of perpetual bond). We upgrade Lenovo from Neutral to Buy, and see trading opportunity in the next six months. We raise TP to HK\$5.80 on 13x FY20E P/E (from HK\$4.10 on 13x FY19E P/E).

Financial highlights

Y/E 31 Mar	2017	2018	2019E	2020E	2021E
Revenue (US\$ m)	43,035	45,350	49,344	51,091	52,425
YoY growth (%)	-4	5	9	4	3
Net profit (US\$ m)	535	(189)	471	680	861
EPS (US\$)	0.05	(0.02)	0.04	0.06	0.07
YoY growth (%)	21	NM	NM	79	40
Previous EPS (US\$)			0.04	0.05	NA
Change (%)			3	16	NA
P/E (x)	11.0	NA	13.3	9.2	7.3
BVPS (US\$)	0.21	0.22	0.20	0.20	0.22
P/B (x)	2.5	2.4	2.7	2.7	2.5
Dividend yield (%)	6.4	6.3	6.0	5.6	6.6

Source: Company data, BOCOM Int'l estimates

Analyst certifications, disclosures and disclaimer at the back forms part of this report and must be read.

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Stock Rating BUY个



Stock data

52w high (HK\$)	5.14
52w low (HK\$)	3.53
Market cap (HK\$ m)	50,702.42
Avg daily vol (m)	61.59
YTD change (%)	-4.31
200d MA (HK\$)	4.24
Source: Bloomberg	

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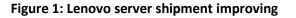
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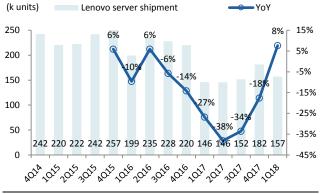
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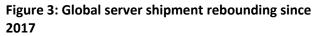
Server ASP Rising on Mix Improvement

Driven by the decision to let go of lower-end hyper-scale business last year, and growth in SDI and HPC, we see a significant mix improvement in DCG driving ASP increase. Lenovo's server ASP rose from US\$4,000-5,000 per unit to ~US\$6,900 per unit as of 1Q18, per Gartner data, narrowing its ASP gap vs. HPE (HPE US) (~ US\$8,300 per unit). As Lenovo's server product mix remains sub-optimal vs. leaders such as HPE and Dell, we believe there is room for further ASP improvement, driving revenue growth and GPM rebound.





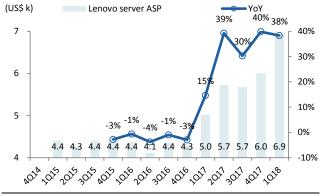
Source: Gartner, BOCOM Int'l





Source: Gartner, BOCOM Int'l





Source: Gartner, IDC, BOCOM Int'l

Figure 4: Global server revenue has grown faster than shipment

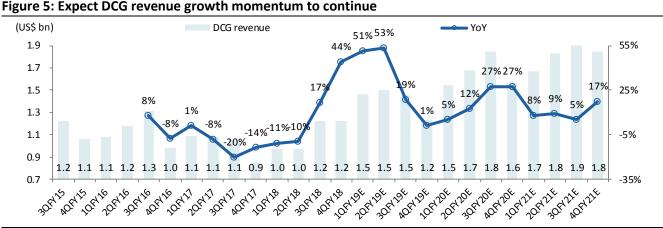


Source: Gartner, BOCOM Int'l



DCG Strong Momentum to Continue

The server business typically has better order visibility than other consumer electronics products such as PC and smartphones. Our checks indicated that the near-term order momentum for Lenovo will likely continue, backed by strong market demand and its improved product portfolio. We expect Lenovo's DCG revenue to rise 51%/53% YoY in 1Q/2QFY19E. With bigger scale and better mix, we forecast DCG pre-tax margin to rise to -3.3%/-2.0% in 1Q/2QFY19E (vs. -14.9/-13.4/-5.2% in 1Q/2Q/4QFY18). We expect the improvement in DCG profitability to lead to earnings upgrade by the Street. The GPM of the DCG business is currently ~15% (vs. HPE GPM of 30%), with about US\$1bn in OPEX per year.



Source: Company data, BOCOM Int'l estimates

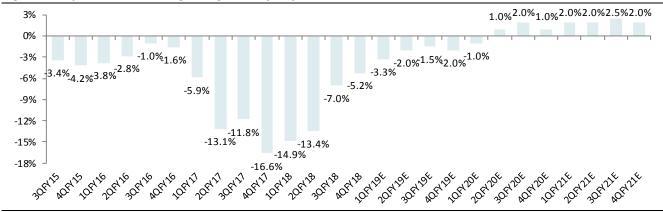


Figure 6: Expect DCG PTI margin to gradually improve



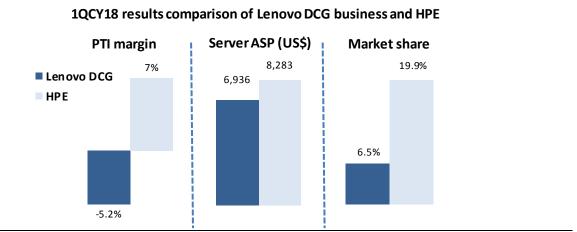


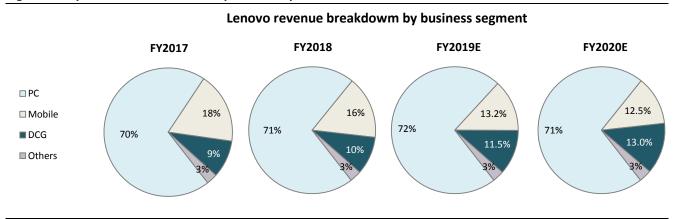
Figure 7: Lenovo DCG margins have room for improvement vs. HPE

Source: Company data, Gartner, BOCOM Int'l *HPE PTI calculation excludes the US\$123m transformation cost.

DCG Revenue to Surpass Smartphones

While smartphones remain a drag, with the company further restructuring the business to narrow losses (lower market exposure in Asia-Pacific), we believe smartphones will have a lesser impact ahead with DCG becoming a bigger revenue contributor. We forecast DCG will account for 11.5%/13% of the company's revenue in FY19/20E (vs. 9%/10% in FY17/18). For smartphones, as the company exits some markets, we forecast revenue contribution to drop to 13.2%/12.5% in FY19/20E (vs. 18%/16% FY17/18).

Figure 8: Expect DCG revenue to surpass smartphones





PC Still a Cash Cow; Margins to Remain Solid

We see that stabilizing memory prices should continue to bode well for device profit margins, and should help keep PC PTI margin stable at ~4.5-5.0%, in our view. DDR 4 8Gb prices have fallen 14% YTD to about US\$8.25 (vs. YE17 of US\$9.55). NAND prices have dropped more severely, with TLC/MLC 128Gb down about 31%/19% YTD. Display prices remain weak, which should also help PC margins, but the impact is less significant. With the PC market stable and higher gaming/workstation mix to drive ASP increase, we expect the PC business to remain a cash cow for the company, delivering US\$1.65bn in FY19E pre-tax profit. We see USD appreciation as a downside risk to PC margins.

Figure 9: DRAM price stabilizing

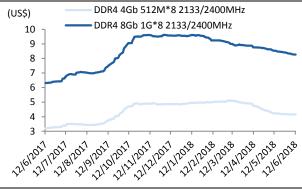
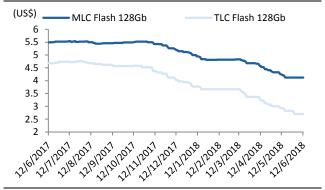


Figure 10: NAND price declining



Source: inSpectrum, Bloomberg, BOCOM Int'l

Street Overly Pessimistic; Expect Earnings Rebound; Upgrade to Buy

We believe Street's negative estimates revision is coming to an end, and expect earnings estimate upgrade to support share price. Currently, our FY19/20E pre-tax profits of US\$641m/871m are 17%/22% higher than Bloomberg consensus. Based on our understanding of short sell ratio over the past six months and investor sentiment, we believe the market is overly pessimistic on Lenovo's earnings outlook. Its share price has fallen 17% since June 2017, vs. Hang Sang Index's 20% rise. The shares currently trade at 13x/9x FY19/20E P/E based on our earnings estimates, vs. closest peers HP (HPQ US)/Asustek (2357 TW) of 11x/12x CY19E P/E (consensus). We lift TP from HK\$4.10 to HK\$5.80, based on 13x FY20E P/E. We see trading opportunity over the next six months. Upgrade from Neutral to **Buy**.

Source: inSpectrum, Bloomberg, BOCOM Int'l



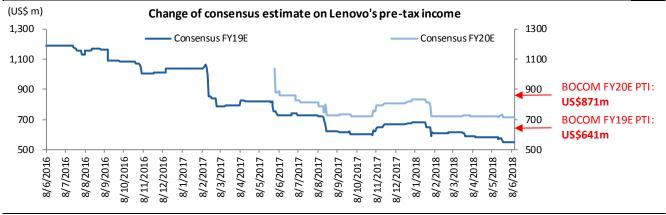
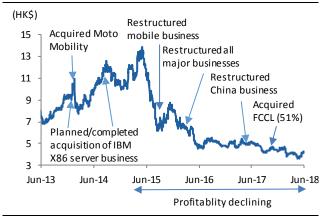


Figure 11: We believe Street is overly pessimistic on earnings

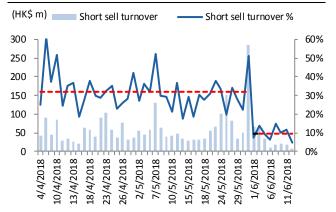
Source: Bloomberg, BOCOM Int'l estimates

Figure 12: Lenovo share price history



Source: Bloomberg, BOCOM Int'l

Figure 13: Short interest ratio declined recently



Source: Bloomberg, BOCOM Int'l



Figure 14: Lenovo quarterly forecasts and key assumptions

Lenovo consolidated (992 HK)	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21
US\$ m (FY end March)	1QFY18	2QFY18	3QFY18	4QFY18	1QFY19E	2QFY19E	3QFY19E	4QFY19E	1QFY20E	2QFY20E	3QFY20E	4QFY20E	FY17	FY18	FY19E	FY20E	FY21E
Revenue	10,012	11,761	12,939	10,638	11,657	12,593	13,613	11,482	12,251	13,043	13,925	11,872	43,035	45,350	49,344	51,091	52,42
Seq %	5	17	10	-18	10	8	8	-16	7	6	7	-15	-4	5	9	4	
COGS	8,648	10,148	11,188	9,094	9,984	10,801	11,706	9,795	10,437	11,104	11,921	10,129	36,929	39,078	42,286	43,590	44,62
% of sales	86	86	86	85	86	86	86	85	85	85	86	85	86	86	86	85	8
Gross Profit	1,365	1,613	1,751	1,544	1,672	1,792	1,907	1,687	1,815	1,939	2,004	1,743	6,106	6,272	7,058	7,501	7,804
GPM%	13.6	13.7	13.5	14.5	14.3	14.2	14.0	14.7	14.8	14.9	14.4	14.7	14.2	13.8	14.3	14.7	14.9
OPEX	1,371	1,525	1,547	1,443	1,515	1,574	1,634	1,435	1,568	1,630	1,657	1,484	5,444	5,885	6,158	6,340	6,412
% of sales	14	13	12	14	13	13	12	13	13	13	12	13	13	13	12	12	12
Operating Profit	(6)	88	205	101	157	218	273	252	246	309	347	259	672	387	900	1,161	1,392
OM%	-0.1	0.7	1.6	1.0	1.3	1.7	2.0	2.2	2.0	2.4	2.5	2.2	1.6	0.9	1.8	2.3	2.7
Pretax Profit	(69)	35	150	37	91	153	210	187	174	237	274	186	490	153	641	871	1,083
PTI%	-0.7	0.3	1.2	0.3	0.8	1.2	1.5	1.6	1.4	1.8	2.0	1.6	1.1	0.3	1.3	1.7	2.1
Tax (benefit)	(15)	(118)	425	(12)	27	23	32	28	26	35	41	28	(41)	280	110	131	163
Net Profit	(72)	139	(289)	33	49	115	164	144	133	186	218	143	535	(189)	471	680	861
EPS (US\$ cents)	(0.7)	1.3	(2.5)	0.3	0.4	1.0	1.4	1.2	1.1	1.6	1.9	1.2	4.9	(1.7)	4.0	5.8	7.3
Revenue by division																	
PCSD (PC/tablets)	7,005	8,382	9,250	7,741	8,310	9,062	9,841	8,509	8,844	9,348	9,788	8,460	30,076	32,379	35,723	36,441	37,079
MBG (Mobile)	1,746	2,077	2,076	1,342	1,530	1,668	1,934	1,393	1,490	1,609	1,851	1,425	7,708	7,241	6,525	6,376	6,249
DCG (Servers)	971	976	1,225	1,223	1,468	1,497	1,452	1,234	1,543	1,682	1,850	1,572	4,068	4,394	5,651	6,647	7,290
Others	290	326	388	332	349	366	385	346	374	404	436	414	1,183	1,336	1,446	1,628	1,807
Total	10,012	11,761	12,939	10,638	11,657	12,593	13,613	11,482	12,251	13,043	13,925	11,872	43,035	45,350	49,344	51,091	52,425
PTI by division																	
PCSD (PC/tablets)	291	367	416	384	382	417	463	391	389	421	450	372	1,494	1,458	1,653	1,632	1,687
MBG (Mobile)	(173)	(164)	(124)	(142)	(138)	(133)	(122)	(88)	(101)	(97)	(102)	(107)	(737)	(603)	(481)	(407)	(339
DCG (Servers)	(144)	(131)	(86)	(64)	(48)	(30)	(22)	(25)	(15)	17	37	16	(470)	(425)	(125)	54	156
Others	(43)	(37)	(56)	(141)	(105)	(101)	(109)	(92)	(98)	(104)	(111)	(95)	202	(277)	(406)	(409)	(419
Total	(69)	35	150	37	91	153	210	187	174	237	274	186	489	153	641	871	1,083
PTI margin by division (%)																	
PCSD (PC/tablets)	4.2	4.4	4.5	5.0	4.6	4.6	4.7	4.6	4.4	4.5	4.6	4.4	5.0	4.5	4.6	4.5	4.5
MBG (Mobile)	-9.9	-7.9	-6.0	-10.6	-9.0	-8.0	-6.3	-6.3	-6.8	-6.0	-5.5	-7.5	-9.6	-8.3	-7.4	-6.4	-5.4
DCG (Servers)	-14.9	-13.4	-7.0	-5.2	-3.3	-2.0	-1.5	-2.0	-1.0	1.0	2.0	1.0	-11.6	-9.7	-2.2	0.8	2.1
	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20	Mar-17	Mar-18	Mar-19	Mar-19	Mar-20
Shipments	1QFY18	2QFY18	3QFY18	4QFY18	1QFY19E	2QFY19E	3QFY19E	4QFY19E	1QFY20E	2QFY20E	3QFY20E	4QFY20E	FY17	FY18	FY19E	FY20E	FY21E
Total PC																	
Units ('000)	12,362	14,491	15,695	12,418	12,832	13,902	15,062	13,000	13,562	14,421	15,142	13,224	55,737	54,966	54,796	56,350	57,186
QoQ %	0	17	8	-21	3	8	8	-14	4	6	5	-13					
YoY %	-6	0	0	1	4	-4	-4	5	6	4	1	2	-1	-1	0	3	1
Smartphone shipment (m units)	11.2	15.3	12.3	9.8	9.1	9.8	11.1	9.4	9.7	10.3	11.5	9.4	51.7	48.6	39.4	40.9	40.8
Seq %	-3	37	-20	-20	-8	7	14	-15	3	6	12	-18	-22	-6	-19	4	(



Financial Statements

Income statement (US\$ m)					
Y/E 31 Mar	2017	2018	2019E	2020E	2021E
Revenue	43,035	45,350	49,344	51,091	52,425
COGS	(36,929)	(39,078)	(42,286)	(43,590)	(44,621)
Gross Profit	6,106	6,272	7,058	7,501	7,804
OPEX	(5,444)	(5,885)	(6,158)	(6,340)	(6,412)
OP	672	387	900	1,161	1,392
Net interest expense	(204)	(231)	(273)	(290)	(309)
Equity Method	21	(3)	14	-	-
Others	-	-	-	-	-
Pre-tax income	490	153	641	871	1,083
Tax	41	(280)	(110)	(131)	(163)
Net income (before minority)	530	(127)	531	740	921
Minority interest	5	(63)	(60)	(60)	(60)
Net income	535	(189)	471	680	861
EPS (US\$ cents)	4.9	-1.7	4.0	5.8	7.3

Cash flow statement (US\$ m)					
Y/E 31 Mar	2017	2018	2019E	2020E	2021E
Profit before tax	490	153	641	871	1,083
Depreciation/Amortization	742	739	784	842	861
Changes in work capital	1,618	(1,090)	(133)	(58)	(44)
Forex gain//loss	87	(258)	-	-	-
Others	(817)	(300)	(110)	(131)	(163)
Cash flow from operations	2,120	(756)	1,182	1,524	1,737
Capex	(464)	(503)	(528)	(555)	(583)
Sales of tangible assets	412	41	-	-	-
Investments	(45)	58	(33)	(14)	(11)
Others	(1,301)	(709)	-	-	-
Cash flow from investing	(1,398)	(1,114)	(561)	(569)	(593)
Dividends paid	(377)	(381)	(396)	(377)	(354)
New share issued	-	496	-	-	-
Debt issuance/(repayment)	655	877	-	-	-
Other	(133)	(118)	-	-	-
Cash flow from financing	145	874	(396)	(377)	(354)
Other	(40)	89	-	-	-
Net cash flow	828	(907)	225	578	790
Cash at beginning	1,927	2,755	1,848	2,073	2,651
Cash at end	2,755	1,848	2,073	2,651	3,441

Balance sheet (US\$ m)					
As of 31 Mar	2017	2018	2019E	2020E	2021E
Cash & cash equiv.	2,755	1,848	2,073	2,651	3,441
Marketable Securities	197	84	84	84	84
Account Receivables	4,468	4,973	5,411	5,602	5,749
Inventory	2,794	3,792	4,126	4,272	4,383
Others	4,655	4,967	4,967	4,967	4,967
Current Assets	14,868	15,663	16,660	17,576	18,623
Land/CIP	-	-	-	-	-
PP&E, net	1,649	1,305	1,049	762	484
Investment securities	256	373	406	420	431
Interest bearing asset	-	-	-	-	-
Intangible asset	8,349	8,515	8,515	8,515	8,515
Other fixed assets	2,063	2,639	2,639	2,639	2,639
Total Assets	27,186	28,494	29,268	29,911	30,691
Accounts payable	6,486	7,252	7,891	8,170	8,383
Short-term debt	70	1,167	1,167	1,167	1,167
Others	11,778	11,041	11,041	11,041	11,041
Current Liabilities	18,334	19,460	20,098	20,378	20,591
Long-term debt	2,967	2,649	2,649	2,649	2,649
Others	1,790	1,840	2,058	2,286	2,514
Total Liabilities	23,091	23,948	24,805	25,312	25,754
Common stock	2,690	3,186	3,186	3,186	3,186
Retained earnings	534	333	190	265	544
Shareholder equity	3,224	3,519	3,376	3,451	3,730
minority interest	872	1,027	1,087	1,147	1,207
Total liabilities and equity	27,186	28,494	29,268	29,911	30,691

Financial ratios					
Y/E 31 Mar	2017	2018	2019E	2020E	2021E
P/E (x)	11.0	NA	13.3	9.2	7.3
P/B (x)	2.5	2.4	2.7	2.7	2.5
P/S (x)	0.1	0.1	0.1	0.1	0.1
EV/EBITDA (x)	5.2	9.2	5.6	4.3	3.3
Dividend yield (%)	6.4	6.3	6.0	5.6	6.6
Net debt/equity (x)	0.0	0.5	0.5	0.3	0.1
ROE (%)	17.2	-5.6	13.7	19.9	24.0
ROA (%)	2.1	-0.7	1.6	2.3	2.8
ROIC (%)	4.2	-6.6	3.5	6.3	8.5



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Rating System				
Analyst Stock Ratings:	Analyst Industry Views:			
Buy: The stock's total return is expected to exceed that of the corresponding industry over the next 12 months. Neutral: The stock's total return is expected to be in line with	Outperform: The analyst expects the industry coverage universe to be attractive relative to the relevant broad market benchmark over the next 12 months.			
that of the corresponding industry over the next 12 months.	Market perform: The analyst expects the industry coverage			
Sell: The stock's total return is expected to be below that of the corresponding industry over the next 12 months.	universe to be in line with the relevant broad market benchmark over the next 12 months.			
Not-Rated: The analyst does not have conviction regarding the outlook of the stock's total return relative to that of the corresponding industry over the next 12 months.	Underperform: The analyst expects the industry coverage universe to be unattractive relative to the relevant broad market benchmark over the next 12 months.			
	Broad market benchmark for Hong Kong is the Hang Seng Composite Index, for China A-shares is the MSCI China A Index, for US-listed Chinese companies is S&P US Listed China 50 (USD) Index.			



Analyst certification

The authors of this report, hereby declare that: (i) all of the views expressed in this report accurately reflect their personal views about any and all of the subject securities or issuers; and (ii) no part of any of their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this report; (iii) no insider information/ non-public price-sensitive information in relation to the subject securities or issuers which may influence the recommendations were being received by the authors.

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