

Memory Semis Monthly

August '26 Edition: Addressing investors' three key concerns

Equities

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HBM de-specing for Rubin Ultra but overall demand holding up

Our industry checks suggest Nvidia will likely initially use HBM4 8-Hi for Rubin Ultra followed by a switch to HBM4E 8-Hi. This is compared to our prior expectation of Rubin Ultra using HBM4E 12-Hi. We believe this is in response to persistent tight supply. This implies that the initial version of the VR300 will use 384GB of HBM4 per GPU (8-Hi x 24Gb x 8 x2), then moving to 512GB HBM4E (8-Hi x 32Gb x8 x2) vs. our 768GB prior estimate. Despite this, our forecast for '27E Nvidia HBM end-consumption increases slightly to 25.1bn Gb (was 24.0bn) as GPU units implied go up to 12.6mil from 11.0mil. We also increase our HBM forecast for Google TPUs to 19.2bn Gb in '27 (was 17.4bn) on unit upside. All in all, our HBM industry end-consumption estimate moves to 61.5bn Gb in 2027 (was 58.7bn) or up 91% YoY. On pricing, we now estimate HBM4E could reach US\$3.9 per Gb in '27 (+75% YoY vs HBM4 in '26); HBM4 US\$3.5 (+60% YoY). We forecast industry HBM blended ASPs up 79% YoY (was 66%) in '27. We see further upside to server DDR demand and hence forecast DRAM industry bit end-demand up 40% YoY in '27 (was +36%) after +21% in '26.

NAND flash contract pricing more dispersed but positive trend remains

Our checks on NAND flash (ex LTA) contract pricing negotiations suggest a wider range of QoQ NAND flash contract price increases for 3Q26E from +20% to >30% QoQ, still ahead of some of the recent market expectations of high teens up. On average, we now forecast ex LTA NAND ASPs up +23% QoQ (was +30%), +12% in 4Q (u/c), and with LTAs, closer to +20%/+8% QoQ respectively. Demand weakness for smartphones (22% of total '26E industry bit demand) and client/PC SSD (10% of total) continues. On the other hand, we see further strength in server/storage SSD demand (43% of total) and now forecast 62% YoY bit demand growth combined in '26 (was 54%) and 51% in '27 (was 45%). All in all, we forecast total NAND industry bit end demand up 23% YoY in '26 and 26% in '27 (was 20/26%) and total NAND industry revs US\$301bn/492bn, close enough to SNDK's forecast (US\$300bn/500bn).

CXMT not a threat to overall DRAM supply / demand

We initiate coverage of CXMT with a Buy rating ([link](#)). We forecast CXMT to reach 9% bit supply share in '27 vs. 7% in '25, with wafer capacity moving to 382k wpm by 4Q27 from 292k in 4Q26 and 240k wpm in 4Q25. We note that some of the market expectations are probably more aligned with equipment delivery vs actual installation/validation and actual production capacity - and hence too high. CXMT is moving to G5 process tech late '26 (sub 15 nm) vs. Samsung / SK Hynix / MU moving to 1d nm (sub 11 nm) in 2H27. Furthermore, in part due to manufacturing equipment exports control, production yields for CXMT are not at par with the top 3 industry leaders.

Buy the pullback on a more sustainable cycle: Prefer DRAM, Samsung top pick

On average memory stocks have pulled back 36% from late June peak and now discount pre-AI through-cycle ROEs (eg. Samsung: 13.9% vs '12-22 average 15.2%). The main fundamental risk is memory spending sustainability for customers, notably hyperscalers. LTAs are reigning in some of the pricing upside into the upcycle and hence, we bring down our '27E memory industry revs forecasts to US\$1.61tn ('26E: US \$0.94tn), or 9% below prior. LTAs are OPM/ROE accretive through the cycle ([link](#)) and in essence, for memory FCF and ultimately, shareholder returns. We continue to forecast the DRAM upcycle to continue for longer than NAND (2Q28E vs. 4Q27E). We rate Samsung Key Call Buy ([link](#)); CXMT, Kioxia, MU, Nanya Tech and SK Hynix Buy.

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KEY CHARTS

Figure 1: AI server GPU/accelerator unit forecasts ('000 units)

	HBM Gen.	HBM Content (GB)			2025	1Q26	2Q26	3Q26E	4Q26E	2026E	1Q27E	2Q27E	3Q27E	4Q27E	2027E
		2025E	2026E	2027E											
NVIDIA															
L40S	GDDR6	48			38										
H200	HBM3E	141			593										
H20 / H20E	HBM3 / 3E	96			441										
B200 (8Hi)	HBM3E	192			1,441										
GB200 (2x GPU - 8Hi)	HBM3E	384	384			103				103					
B300 (12Hi)	HBM3E	288	288	288	587	267	300	200	100	867	50				50
GB300 (2x GPU - 12Hi)	HBM3E	576	576	576	778	658	670	580	450	2,358	360	270	180	90	900
R200 (12Hi)	HBM4		288	288			20	200	320	540	360	400	320	240	1,320
RV200 (2x GPU - 12Hi)	HBM4		576	576			40	250	450	740	600	720	690	630	2,640
R300 (8Hi)	HBM4			192									250		250
R300 (8Hi)	HBM4E			256										400	400
RV300 (2x GPU - 8Hi)	HBM4			384									250		250
RV300 (2x GPU - 8Hi)	HBM4E			512										550	550
*Other GPU/Accel	HBM3 / 3E	288	384	576	107	60	80	80	80	300	70	70	80	80	300
Total Units					5,066	1,088	1,110	1,310	1,400	4,908	1,440	1,460	1,770	1,990	6,660
% YoY					3%	-17%	0%	3%	3%	-3%	32%	32%	35%	42%	36%
% QoQ						-20%	2%	18%	7%	3%	3%	1%	21%	12%	
Total SiPs					6,924	1,849	1,820	2,140	2,300	8,109	2,400	2,450	2,890	3,260	11,000
% YoY					38%	27%	23%	15%	8%	17%	30%	35%	35%	42%	36%
% QoQ						-13%	-2%	18%	7%	4%	2%	2%	18%	13%	
Total GPUs					6,924	1,849	1,820	2,140	2,300	8,109	2,400	2,450	3,390	4,360	12,600
% YoY					38%	27%	23%	15%	8%	17%	30%	35%	35%	42%	55%
% QoQ						-13%	-2%	18%	7%	4%	2%	2%	38%	29%	
AMD															
MI300	HBM3	192			71										
MI325X (12Hi)	HBM3E	256	256		224	18				18					
MI355X (12Hi)	HBM3E	288	288		221	170	150	80	70	470					
MI308X	HBM3	192	192		96	29	28	5		62					
MI450 (12Hi)	HBM4		432	432				45	230	275	350	450	470	380	1,650
MIXXX (16Hi)	HBM4E			1024									60	160	220
*Other GPU/Accel	HBM3	192	192	288	4	1	1	1	1	6	2	2	2	2	8
Total Units					616	218	179	131	301	831	352	452	532	542	1,878
% YoY					41%	81%	86%	-26%	37%	35%	61%	152%	305%	80%	126%
% QoQ						-1%	-18%	-27%	129%	17%	28%	18%	2%		
Google															
TPU v5e	HBM2E	32			134										
TPU v5p	HBM2E	96			1,916										
TPU v6e	HBM3E	32	32		426	205	224	141	70	640					
TPU v7	HBM3E	192	192	192	90	520	720	800	750	2,790	600	450	300	150	1,500
TPU v8i (Dual die AX)	HBM3E		288	288				25	225	250	700	1,000	1,300	1,000	4,000
TPU v8t (Single die X)	HBM3E		216	216				70	380	450	700	1,200	1,500	1,000	4,400
*Other TPU/Accel	HBM3	96	144	144	77	7	9	10	10	37	25	25	25	25	100
Total Units					2,643	732	953	1,046	1,435	4,167	2,025	2,675	3,125	2,175	10,000
% YoY					19%	14%	66%	82%	68%	58%	177%	181%	199%	52%	140%
% QoQ						-14%	30%	10%	37%	41%	32%	17%	-30%		
Amazon															
Inferentia 2	HBM2E	32			88										
Trainium 2 / 2.5	HBM3E	96	144	144	496	130	220	140	100	590	50	10			60
Inferentia 3	HBM3	96	96	96	162	30	28	20	18	96	15	10			25
Trainium 3	HBM3E		144	144			320	620	840	1,780	840	780	640	540	2,800
Trainium 4	HBM4			256									40	240	280
*Other Accel	HBM3	144	144	144	37	5	6	8	10	28	8	8	7	7	30
Total Units					783	165	574	788	968	2,494	913	808	687	787	3,195
% YoY					-8%	-17%	180%	302%	424%	218%	454%	41%	-13%	-19%	28%
% QoQ						-11%	248%	37%	23%	-6%	-12%	-15%	15%		
Intel / Habana															
Gaudi 3	HBM2 / 3E	288	288		188	30	18	8		56					
Gaudi 4	HBM3E		288	288				10	25	35	25	20	15	10	70
*Others	HBM2 / 3E	192	192	192	25	6	4	4	5	18	4	4	4	4	16
Total Units					213	36	22	22	30	109	29	24	19	14	86
% YoY					-32%	-20%	-60%	-63%	-46%	-49%	-19%	11%	-12%	-53%	-21%
% QoQ						-36%	-40%	0%	39%	-3%	-17%	-21%	-26%		
Microsoft															
Maia 100	HBM3	120	120		34	3	1			4					
Maia 200	HBM3E		288	288		2	6	10	14	33	14	10	7	4	35
Maia 300	HBM4			288									8	14	22
*Others	HBM3	120	192	192	8	2	2	2	2	8	2	2	2	2	8
Total Units					42	7	9	12	16	45	16	12	17	20	65
% YoY					22%	-27%	-19%	4%	84%	7%	119%	35%	36%	24%	45%
% QoQ						-17%	22%	40%	29%	0%	-25%	42%	18%		
Meta															
MTIA v1	LPDDR5	64	64		421	20	5			25					
MTIA v2	LPDDR5	128	128		30	20	8	2		30					
MTIA v3	HBM3E	192	192	192	5	15	20	35	40	110	40	30	20	15	105
MTIA v4	HBM4			432							40	80	100	120	340
*Others	LPDDR5	64	128	128	28	3	1	1	1	6	5	5	5	5	20
Total Units					484	58	34	38	41	171	85	115	125	140	465
% YoY					19%	-43%	-71%	-71%	-68%	-65%	47%	235%	228%	240%	171%
% QoQ						-56%	-41%	11%	8%	106%	35%	9%	12%		
Tesla															
Dojo	HBM3	64	64	64	62	17	18	15	14	64	15	15	18	15	63
*Others	HBM3	64	64	64	44	7	7	6	6	26	6	6	5	5	22
Total Units					106	24	25	21	20	90	21	21	23	20	85
% YoY					-39%	-12%	-9%	-24%	-16%	-15%	-12%	-17%	10%	2%	-5%
% QoQ						2%	6%	-17%	-7%	7%	0%	10%	-13%		
Others															
Startups	HBM3	192	288	288	657	150	150	155	155	610	170	180	185	190	725
Others	HBM2E / 3	192	288	288	361	30	30	39	39	138	60	63	65	67	254
Total Units					1,019	180	180	194	194	748	230	243	250	257	979
% YoY					59%	-28%	-32%	-26%	-20%	-27%	26%	35%	29%	32%	31%
% QoQ						-26%	0%	8%	0%	16%	6%	3%	3%		
Total GPU / Accelerator Units ('000)					12,829	3,269	3,797	4,412	5,455	16,933	6,231	6,970	7,848	7,445	28,493
% YoY					27%	15%	34%	34%	42%	32%	91%	84%	78%	36%	68%
% QoQ						-15%	16%	16%	24%	14%	12%	13%	-5%		

Source: Company data, UBS estimates

Figure 2: HBM demand forecasts by GPU/accelerator

	HBM Gen.	HBM Content (GB)			2025	1Q26	2Q26	3Q26E	4Q26E	2026E	1Q27E	2Q27E	3Q27E	4Q27E	2027E
		2025E	2026E	2027E											
NVIDIA															
H200	HBM3E	141			83,571										
H20 / H20E	HBM3 / 3E	96			42,336										
B200 (8Hi)	HBM3E	192			276,649										
GB200 (2x GPU - 8Hi)	HBM3E	384	384		414,872	39,504				39,504					
B300 (12Hi)	HBM3E	288	288	288	169,176	76,896	86,400	57,600	28,800	249,696	14,400				14,400
GB300 (2x GPU - 12Hi)	HBM3E	576	576	576	448,259	379,008	385,920	334,080	259,200	1,358,208	207,360	155,520	103,680	51,840	518,400
R200 (12Hi)	HBM4		288	288			5,760	57,600	92,160	155,520	103,680	115,200	92,160	69,120	380,160
RV200 (2x GPU - 12Hi)	HBM4		576	576			23,040	144,000	259,200	426,240	345,600	414,720	397,440	362,880	1,520,640
R300 (12Hi)	HBM4			192									48,000		48,000
R300 (12Hi)	HBM4E			256										102,400	102,400
RV300 (4x GPU - 12Hi)	HBM4			384									96,000		96,000
RV300 (4x GPU - 12Hi)	HBM4E			512										281,600	281,600
*Other GPU/Accel	HBM3 / 3E	288	384	576	30,787	23,040	30,720	30,720	30,720	115,200	40,320	40,320	46,080	46,080	172,800
Total ('000 GB)					1,465,650	518,448	531,840	624,000	670,080	2,344,368	711,360	725,760	783,360	913,920	3,134,400
Total (bn Gb)					11.73	4.15	4.25	4.99	5.36	18.75	5.69	5.81	6.27	7.31	25.08
AMD															
MI300	HBM3	192			13,685										
MI325X (12Hi)	HBM3E	256	256		57,294	4,608				4,608					
MI355X (12Hi)	HBM3E	288	288		63,569	48,960	43,200	23,040	20,160	135,360					
MI308X	HBM3	192	192		18,394	5,568	5,376	960		11,904					
MI450 (12Hi)	HBM4		432	432				19,440	99,360	118,800	151,200	194,400	203,040	164,160	712,800
MISXX (16Hi)	HBM4E			1,024									61,440	163,840	225,280
*Other GPU/Accel	HBM3	192	192	288	812	274	285	282	281	1,123	576	576	576	576	2,304
Total ('000 GB)					153,754	59,410	48,861	43,722	119,801	271,795	151,776	194,976	265,056	328,576	940,384
Total (bn Gb)					1.23	0.48	0.39	0.35	0.96	2.17	1.21	1.56	2.12	2.63	7.52
Google															
TPU v5e	HBM2E	32			4,282										
TPU v5p	HBM2E	96			183,913										
TPU v6e	HBM3E	32	32		13,632	6,554	7,168	4,506	2,253	20,480					
TPU v7	HBM3E	192	192	192	17,280	99,840	138,240	153,600	144,000	535,680	115,200	86,400	57,600	28,800	288,000
TPU v8i (Dual die AX)	HBM3E		288	288				7,200	64,800	72,000	201,600	288,000	374,400	288,000	1,152,000
TPU v8t (Single die X)	HBM3E		216	216				15,120	82,080	97,200	151,200	259,200	324,000	216,000	950,400
*Other TPU/Accel	HBM3	96	144	144	7,389	1,044	1,359	1,492	1,440	5,335	3,600	3,600	3,600	3,600	14,400
Total ('000 GB)					226,495	107,437	146,767	181,917	294,573	730,695	471,600	637,200	759,600	536,400	2,404,800
Total (bn Gb)					1.81	0.86	1.17	1.46	2.36	5.85	3.77	5.10	6.08	4.29	19.24
Amazon															
Inferentia 2	HBM2E	32			2,823										
Trainium 2 / 2.5	HBM3E	96	144	144	47,574	18,720	31,680	20,160	14,400	84,960	7,200	1,440			8,640
Inferentia 3	HBM3	96	96	96	15,563	2,880	2,688	1,920	1,728	9,216	1,440	960			2,400
Trainium 3	HBM3E		144	144			46,080	89,280	120,960	256,320	120,960	112,320	92,160	77,760	403,200
Trainium 4	HBM4			256									10,240	61,440	71,680
*Other Accel	HBM3	144	144	144	5,375	691	818	1,123	1,380	4,012	1,152	1,152	1,008	1,008	4,320
Total ('000 GB)					71,336	22,291	81,266	112,483	138,468	354,508	130,752	115,872	103,408	140,208	490,240
Total (bn Gb)					0.57	0.18	0.65	0.90	1.11	2.84	1.05	0.93	0.83	1.12	3.92
Intel															
Gaudi 3	HBM2 / 3E	288	288		54,212	8,640	5,184	2,304		16,128					
Gaudi 4	HBM3E		288	288				2,880	7,200	10,080	7,200	5,760	4,320	2,880	20,160
*Others	HBM2 / 3E	192	192	192	4,789	1,152	691	691	960	3,494	768	768	768	768	3,072
Total ('000 GB)					59,001	9,792	5,875	5,875	8,160	29,702	7,968	6,528	5,088	3,648	23,232
Total (bn Gb)					0.47	0.08	0.05	0.05	0.07	0.24	0.06	0.05	0.04	0.03	0.19
Microsoft															
Maia 100	HBM3	120	120		4,050	360	120			480					
Maia 200	HBM3E		288	288		660	1,696	3,016	4,052	9,424	4,032	2,880	2,016	1,152	10,080
Maia 300	HBM4			288									2,304	4,032	6,336
*Others	HBM3	120	192	192	960	384	384	384	384	1,536	384	384	384	384	1,536
Total ('000 GB)					5,010	1,404	2,200	3,400	4,436	11,440	4,416	3,264	4,704	5,568	17,952
Total (bn Gb)					0.04	0.01	0.02	0.03	0.04	0.09	0.04	0.03	0.04	0.04	0.14
Meta															
MTIA v3	HBM3E	192	192	192	960	2,880	3,840	6,720	7,680	21,120	7,680	5,760	3,840	2,880	20,160
MTIA v4	HBM4			432							17,280	34,560	43,200	51,840	146,880
Total ('000 GB)					960	2,880	3,840	6,720	7,680	21,120	24,960	40,320	47,040	54,720	167,040
Total (bn Gb)					0.01	0.02	0.03	0.05	0.06	0.17	0.20	0.32	0.38	0.44	1.34
Others															
Tesla	HBM3	64	64		6,780	1,523	1,613	1,344	1,255	5,735	1,344	1,344	1,472	1,280	5,440
Startups / Etc.	HBM2E / 3	192	288		195,559	51,840	51,840	55,800	55,800	215,280	66,096	69,984	71,928	73,872	281,880
Total ('000 GB)					202,339	53,363	53,453	57,144	57,055	221,015	67,440	71,328	73,400	75,152	287,320
Total (bn Gb)					1.62	0.43	0.43	0.46	0.46	1.77	0.54	0.57	0.59	0.60	2.30
Total HBM Demand ('000 GB)					2,184,545	775,025	874,103	1,039,582	1,332,654	4,021,364	1,604,832	1,831,968	2,098,536	2,154,672	7,690,008
Total HBM Demand (bn Gb)					17.48	6.20	6.99	8.32	10.66	32.17	12.84	14.66	16.79	17.24	61.52
% YoY					103%	97%	103%	72%	77%	84%	107%	110%	102%	62%	91%
% QoQ						3%	13%	19%	28%		20%	14%	15%	3%	

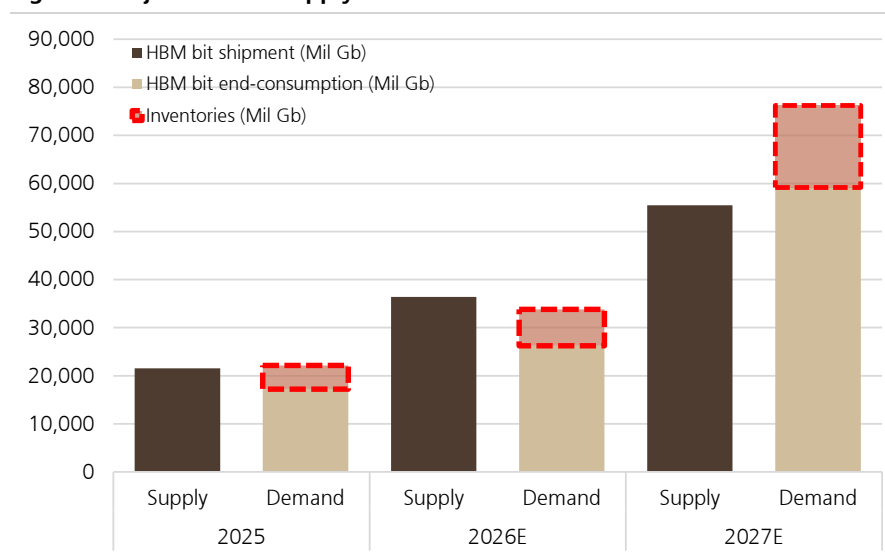
Source: Company data, UBS estimates

Figure 3: HBM vendors' bit shipments

(M 1Gb)		2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
SK Hynix		12,628	3,803	3,804	4,559	5,072	17,237	4,915	5,118	5,466	5,796	21,295
	% YoY	86%	31%	20%	41%	53%	36%	29%	35%	20%	14%	24%
	% QoQ		15%	0%	20%	11%		-3%	4%	7%	6%	
Samsung		4,327	1,519	2,061	3,384	4,436	11,400	4,879	5,266	5,801	6,242	22,189
	% YoY	-15%	161%	170%	140%	182%	163%	221%	156%	71%	41%	95%
	% QoQ		-3%	36%	64%	31%		10%	8%	10%	8%	
Micron		4,584	1,612	1,821	2,040	2,305	7,778	2,536	2,840	3,152	3,436	11,964
	% YoY	417%	106%	60%	62%	64%	70%	57%	56%	55%	49%	54%
	% QoQ		15%	13%	12%	13%		10%	12%	11%	9%	
Total Supply		21,539	6,934	7,686	9,983	11,812	36,415	12,330	13,223	14,419	15,475	55,447
	% YoY	69%	62%	52%	69%	88%	69%	78%	72%	44%	31%	52%
	% QoQ		10%	11%	30%	18%		4%	7%	9%	7%	

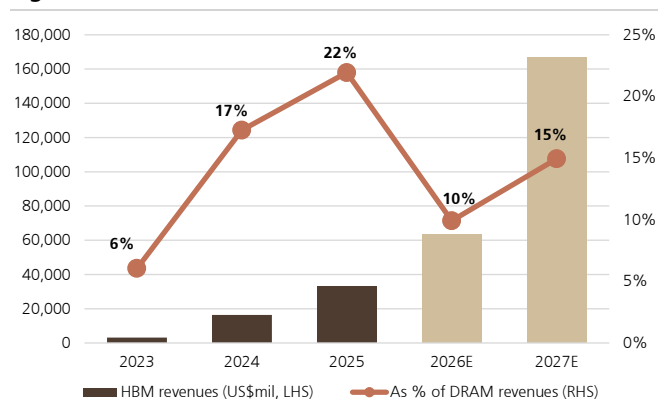
Source: Company data, UBS estimates

Figure 4: Adjusted HBM supply vs demand



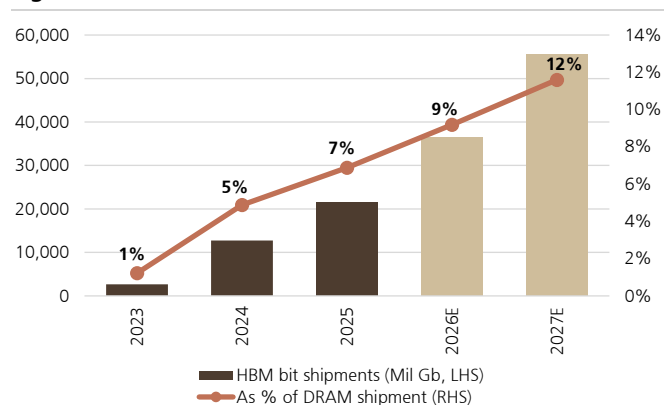
Source: Company data, UBS estimates

Figure 5: HBM as % of total DRAM revenues



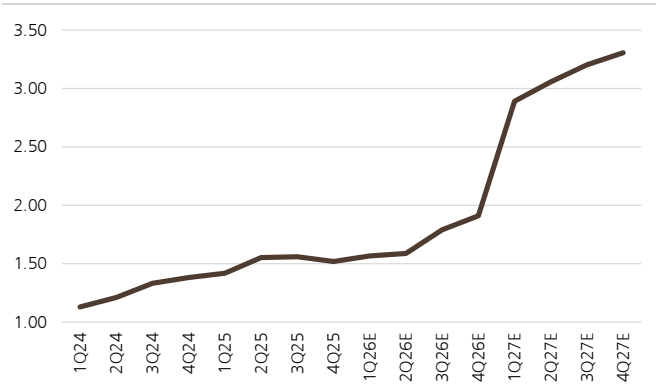
Source: UBS estimates

Figure 6: HBM as % of total DRAM bits



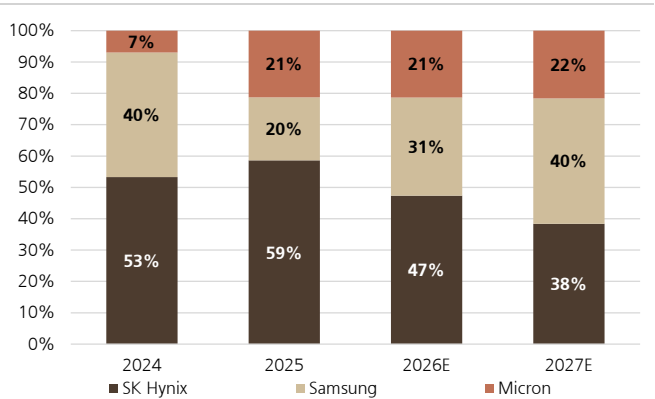
Source: UBS estimates

Figure 7: HBM ASP forecasts (US\$/1Gb)



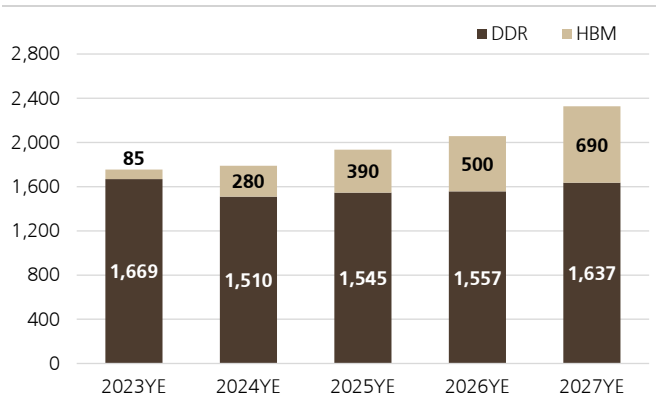
Source: UBS estimates

Figure 8: HBM bit share by vendor



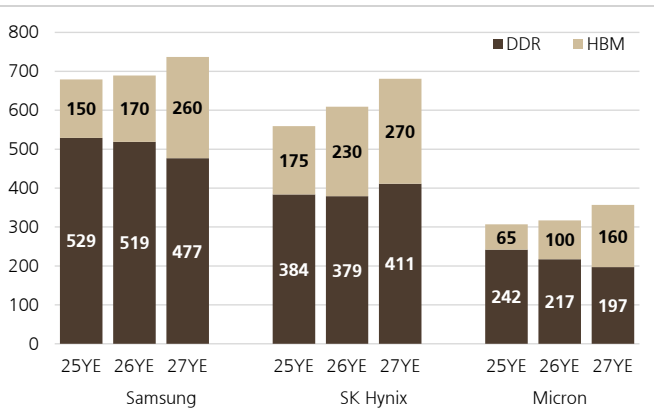
Source: Company data, UBS estimates

Figure 9: DRAM industry capacity (k wpm) breakdown between DDR and HBM



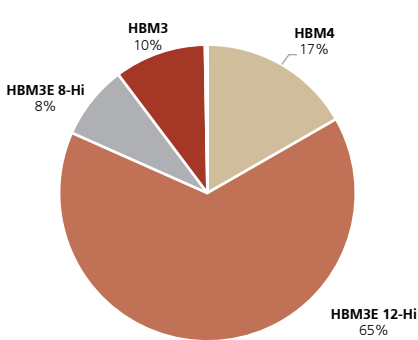
Source: Company data, UBS estimates

Figure 10: DRAM capacity (k wpm) breakdown between DDR and HBM by supplier



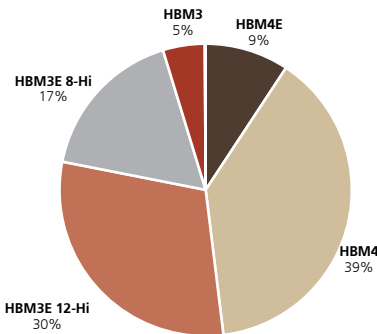
Source: Company data, UBS estimates

Figure 11: HBM demand by type (2026E)



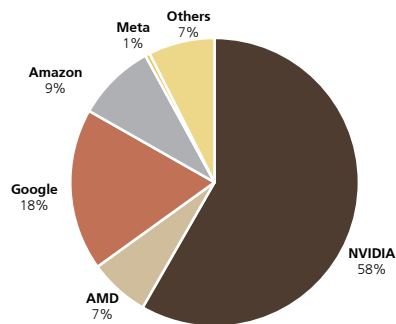
Source: UBS estimates

Figure 12: HBM demand by type (2027E)



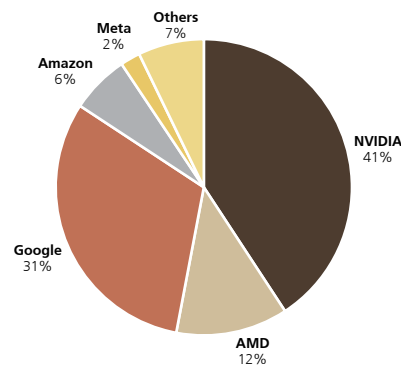
Source: UBS estimates

Figure 13: HBM demand by customer (2026E)



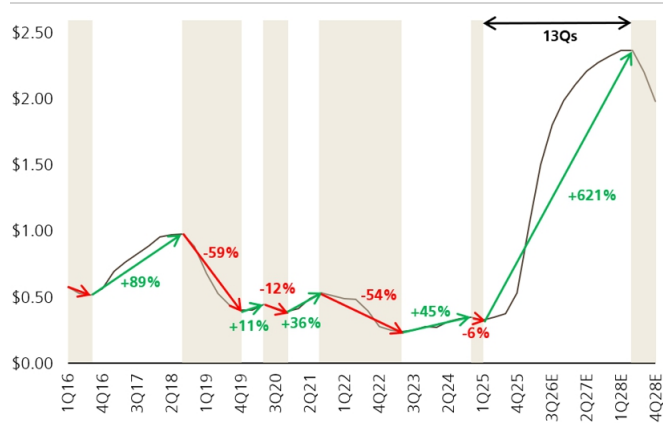
Source: UBS estimates

Figure 14: HBM demand by customer (2027E)



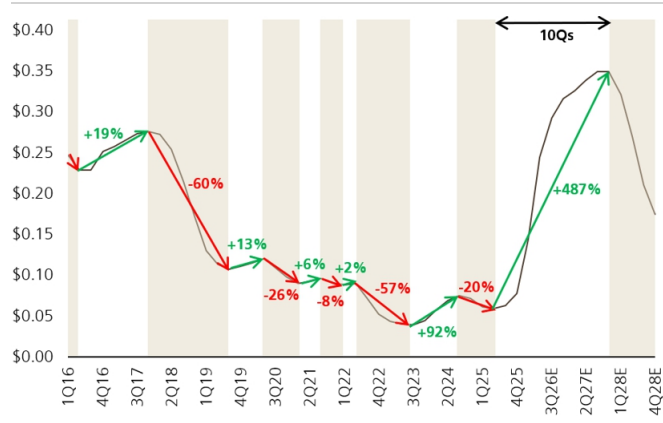
Source: UBS estimates

Figure 15: DDR cycles in context



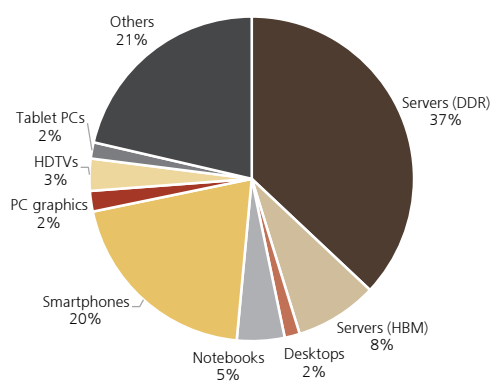
Source: Company data, UBS estimates

Figure 16: NAND cycles in context



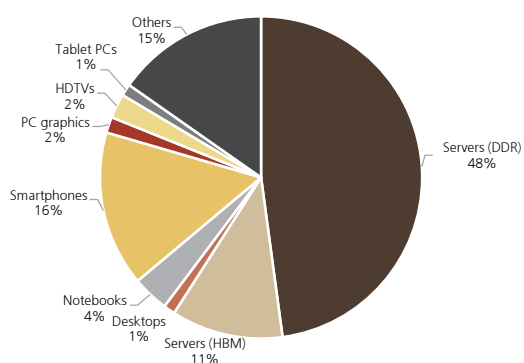
Source: Company data, UBS estimates

Figure 17: DRAM bit demand per application (2026E)



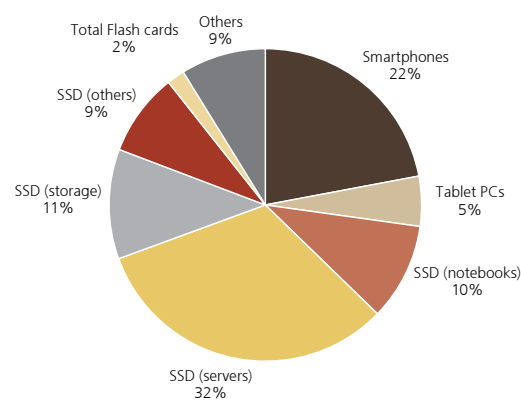
Source: Gartner, UBS estimates

Figure 18: DRAM bit demand per application (2027E)



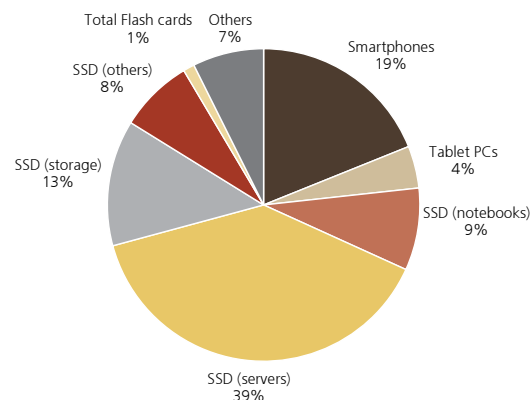
Source: Gartner, UBS estimates

Figure 19: NAND bit demand per application (2026E)



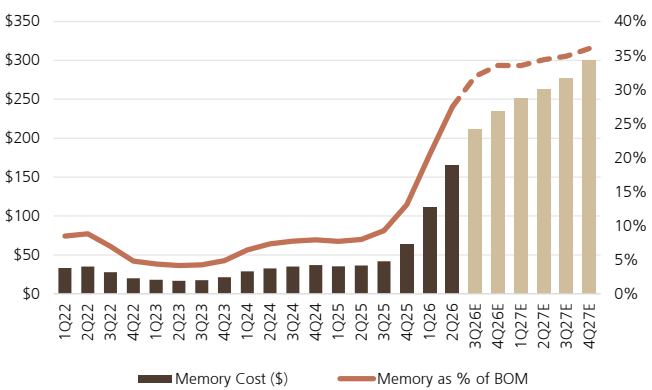
Source: Gartner, UBS estimates

Figure 20: NAND bit demand per application (2027E)



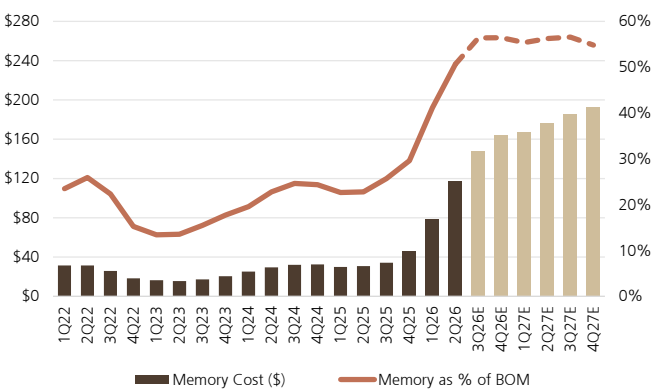
Source: Gartner, UBS estimates

Figure 21: Memory as % of flagship/premium smartphone BOM costs, 1Q22-4Q27E



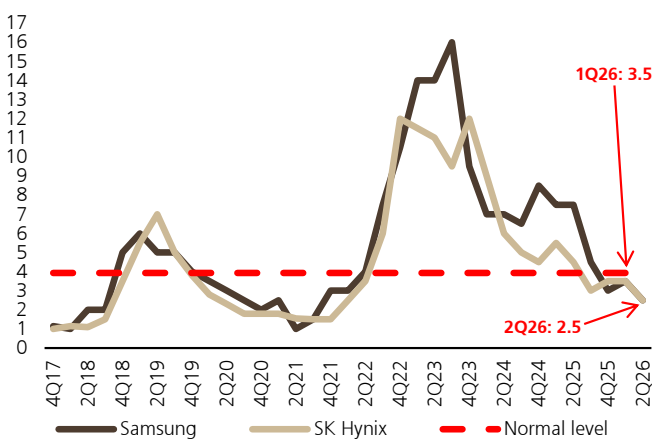
Source: Counterpoint, Fomalhaut, UBS estimates

Figure 22: Memory as % of mid-range/lower-end smartphones, 1Q22-4Q27E



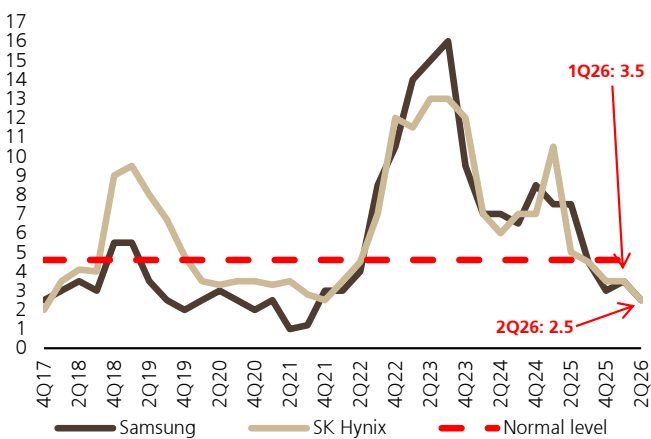
Source: UBS estimates

Figure 23: Samsung and SK Hynix – DRAM finished wafers and dies inventories



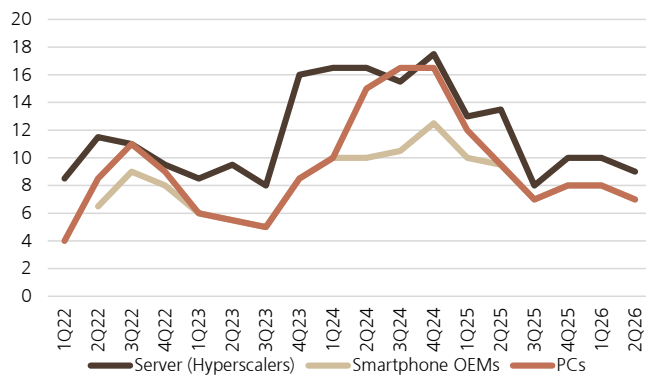
Source: Company data, UBS estimates

Figure 24: Samsung and SK Hynix – NAND finished wafers and dies inventories



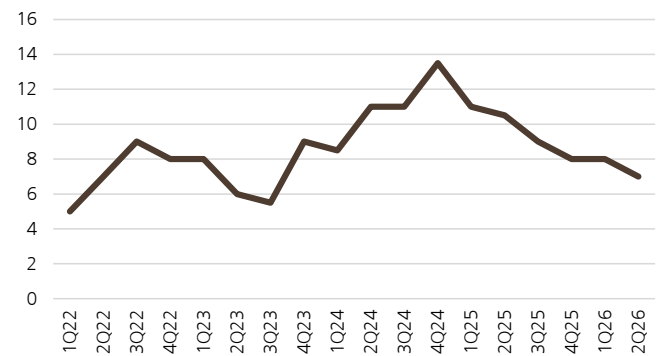
Source: Company data, UBS estimates

Figure 25: DRAM customer inventories (weeks)



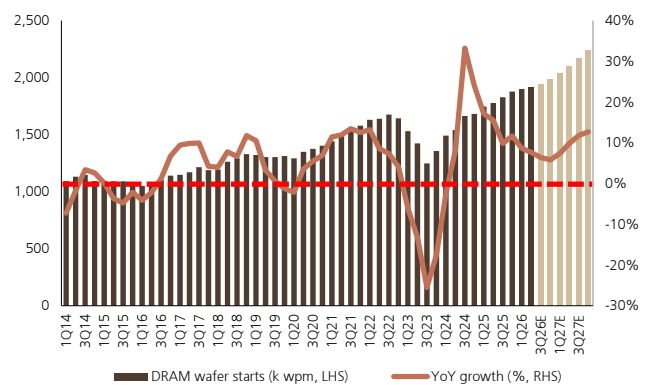
Source: Company data, UBS estimates

Figure 26: NAND customer inventories (weeks)



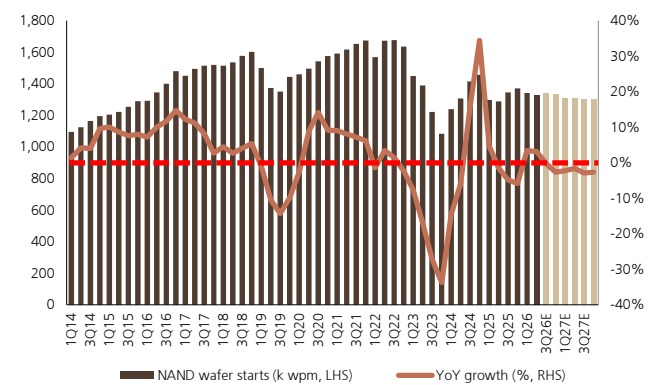
Source: Company data, UBS estimates

Figure 27: DRAM industry wafer starts and YoY growth



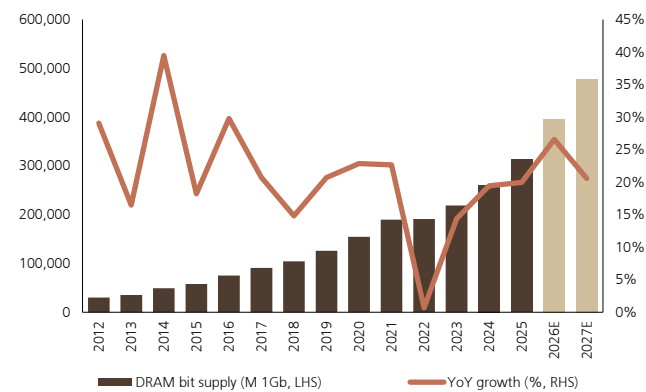
Source: Company data, UBS estimates

Figure 28: NAND industry wafer starts and YoY growth



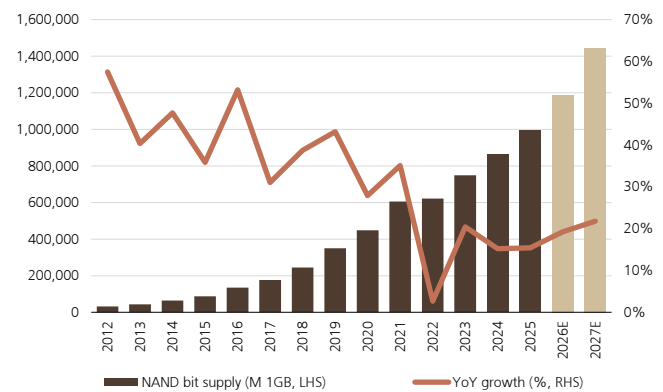
Source: Company data, UBS estimates

Figure 29: DRAM industry bit supply and YoY growth



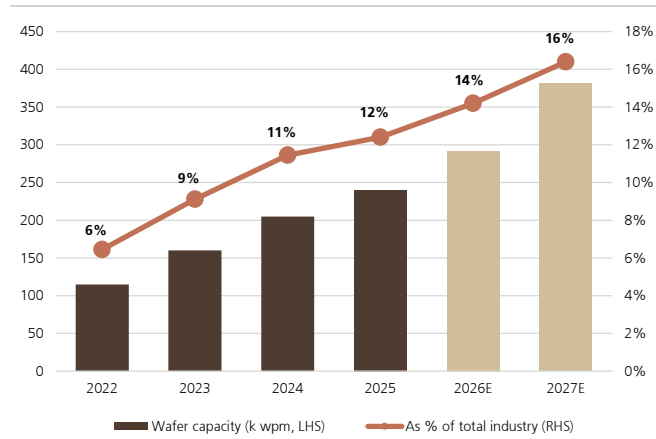
Source: Company data, UBS estimates

Figure 30: NAND industry bit supply and YoY growth



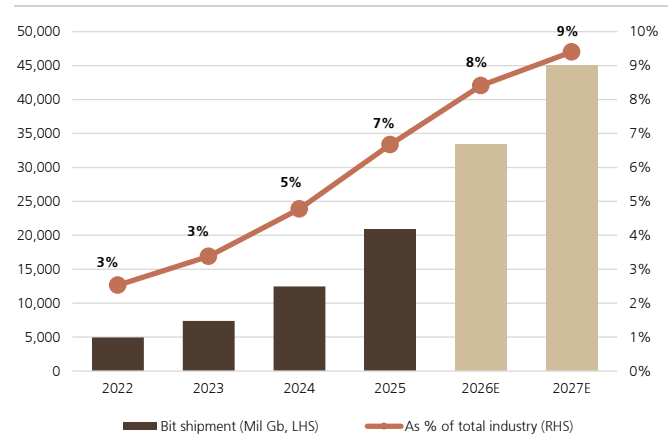
Source: Company data, UBS estimates

Figure 31: CXMT wafer capacity and as % of DRAM industry



Source: UBS estimates

Figure 32: CXMT bit shipments and as % of DRAM industry



Source: UBS estimates

Figure 33: UBS DRAM supply/demand summary

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Revenues (\$ mil)	26,415	31,776	39,234	52,958	150,384	98,109	146,320	185,464	212,130	642,023	241,172	268,773	294,065	313,825	1,117,835
% QoQ	-7.3%	20.3%	23.5%	35.0%		85.3%	49.1%	26.8%	14.4%		13.7%	11.4%	9.4%	6.7%	
% YoY	46.4%	39.0%	54.3%	85.8%	58.6%	271.4%	360.5%	372.7%	300.6%	326.9%	145.8%	83.7%	58.6%	47.9%	74.1%
Supply (Shipments Based) (M 1Gb)	64,317	75,938	85,576	87,400	313,229	89,789	96,744	102,723	107,178	396,433	109,881	116,451	123,213	128,510	478,055
% QoQ	-2.6%	18.1%	12.7%	2.1%		2.7%	7.7%	6.2%	4.3%		2.5%	6.0%	5.8%	4.3%	
% YoY	3.4%	14.2%	28.9%	32.3%	19.9%	39.6%	27.4%	20.0%	22.6%	26.6%	22.4%	20.4%	19.9%	19.9%	20.6%
Demand (End Consumption) (M 1Gb)	69,879	73,066	87,229	94,120	324,295	89,603	91,394	100,943	109,547	391,487	112,620	125,154	144,918	165,927	548,619
% QoQ	0.2%	4.6%	19.4%	7.9%		-4.8%	2.0%	10.4%	8.5%		2.8%	11.1%	15.8%	14.5%	
% YoY	17.5%	21.0%	35.1%	34.9%	27.6%	28.2%	25.1%	15.7%	16.4%	20.7%	25.7%	36.9%	43.6%	51.5%	40.1%
DDR Demand (M 1Gb)					306,809					359,316					487,099
% YoY					24.9%					17.1%					35.6%
Inventory adjustment	-6,150	3,250	200	-700	-3,400	17,300	13,850	6,900	-750	37,300	-1,200	-8,300	-21,400	-36,600	-67,500
Inventory Adj. Demand (M 1Gb)	63,729	76,316	87,429	93,420	320,895	106,903	105,244	107,843	108,797	428,787	111,420	116,854	123,518	129,327	481,119
% QoQ	-5.8%	19.8%	14.6%	6.9%		14.4%	-1.6%	2.5%	0.9%		2.4%	4.9%	5.7%	4.7%	
% YoY	1.6%	10.5%	28.7%	38.1%	20.0%	67.7%	37.9%	23.3%	16.5%	33.6%	4.2%	11.0%	14.5%	18.9%	12.2%
Wafer out (k wpm, 12" equi.)	1,716	1,764	1,804	1,854	1,784	1,889	1,907	1,929	1,961	1,921	2,009	2,066	2,134	2,203	2,103
% QoQ	2.5%	2.8%	2.3%	2.8%		1.9%	1.0%	1.2%	1.7%		2.4%	2.9%	3.3%	3.2%	
% YoY	17.9%	16.5%	13.4%	10.8%	14.5%	10.1%	8.1%	7.0%	5.8%	7.7%	6.3%	8.4%	10.6%	12.3%	9.4%
% Sufficiency Ratio	0.9%	-0.5%	-2.1%	-6.4%	-2.4%	-16.0%	-8.1%	-4.7%	-1.5%	-7.5%	-1.4%	-0.3%	-0.2%	-0.6%	-0.6%
Blended ASP incl. HBM (\$/Gb)	0.41	0.42	0.46	0.61	0.48	1.09	1.51	1.81	1.98	1.62	2.19	2.31	2.39	2.44	2.34
% QoQ	-4.8%	1.9%	9.6%	32.2%		80.3%	38.4%	19.4%	9.6%		10.9%	5.2%	3.4%	2.3%	
% YoY	41.5%	21.8%	19.7%	40.4%	32.2%	166.0%	261.4%	293.8%	226.6%	237.3%	100.9%	52.6%	32.2%	23.4%	44.4%
DDR ASP (\$/Gb)	0.33	0.35	0.38	0.53	0.40	1.05	1.51	1.81	1.99	1.61	2.11	2.21	2.28	2.32	2.24
% QoQ	-6.2%	7.0%	7.0%	42.0%		97.0%	43.0%	20.0%	10.0%		6.0%	5.0%	3.0%	2.0%	
% YoY	20.3%	10.6%	11.8%	52.5%	26.4%	220.3%	328.0%	380.0%	271.9%	297.2%	100.1%	46.9%	26.1%	16.9%	39.1%
HBM ASP (\$/Gb)	1.42	1.55	1.56	1.52	1.52	1.57	1.59	1.79	1.91	1.74	2.89	3.06	3.20	3.31	3.13
% QoQ	2.7%	9.4%	0.4%	-2.5%		3.0%	1.4%	12.7%	6.7%		51.4%	5.7%	4.8%	3.2%	
% YoY	25.6%	28.3%	16.9%	10.0%	15.6%	10.3%	2.3%	14.8%	25.6%	14.8%	84.6%	92.5%	79.0%	73.2%	79.4%

Source: Company data, UBS estimates

Figure 34: DRAM vendors' market share in bit shipments

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Samsung	39.7%	37.5%	38.3%	38.2%	38.4%	37.6%	38.7%	38.3%	36.0%	37.6%	37.0%	37.7%	37.7%	37.4%	37.4%
SK Hynix	29.1%	30.9%	29.6%	29.2%	29.7%	28.3%	28.3%	29.4%	31.5%	29.5%	29.8%	29.3%	29.2%	29.1%	29.3%
Micron	23.0%	23.4%	23.9%	23.5%	23.5%	24.1%	23.0%	22.4%	22.4%	22.9%	22.7%	22.5%	22.3%	22.2%	22.4%
Nanya Tech	1.0%	1.4%	1.6%	1.8%	1.5%	1.6%	1.4%	1.3%	1.1%	1.4%	1.1%	1.1%	1.3%	1.4%	1.2%
CXMT	6.8%	6.5%	6.4%	7.0%	6.7%	8.2%	8.3%	8.4%	8.8%	8.4%	9.2%	9.2%	9.4%	9.7%	9.4%
Others	0.3%	0.3%	0.2%	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Total Supply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: Gartner, Company data, UBS estimates

Figure 35: DRAM vendors' bit shipments QoQ and YoY growth

	Q125 QoQ	Q225 QoQ	Q325 QoQ	Q425 QoQ	2025 YoY	Q126 QoQ	Q226 QoQ	Q326E QoQ	Q426E QoQ	2026E YoY	Q127E QoQ	Q226E QoQ	Q327E QoQ	Q427E QoQ	2027E YoY
Samsung	1.5%	11.5%	15.0%	2.0%	9.7%	1.0%	11.0%	5.0%	-2.0%	24.0%	5.4%	7.9%	5.8%	3.5%	20.0%
SK Hynix	-7.0%	25.0%	8.0%	0.8%	24.3%	-0.3%	7.5%	10.3%	12.0%	25.6%	-3.1%	4.1%	5.4%	4.0%	20.0%
Micron	-8.0%	20.3%	15.0%	0.5%	21.8%	5.1%	3.2%	3.4%	4.0%	23.5%	4.0%	5.0%	5.0%	4.0%	17.9%
Nanya Tech	8.4%	68.0%	26.4%	11.9%	54.3%	-6.2%	-3.0%	-6.7%	-6.9%	15.3%	2.5%	5.6%	17.6%	14.9%	9.7%
CXMT	14.0%	12.5%	10.8%	12.8%	67.5%	19.2%	9.4%	7.6%	9.1%	59.7%	7.2%	6.8%	7.9%	7.9%	34.8%
Others	-4.8%	2.5%	2.4%	2.4%	3.1%	-2.3%	0.0%	2.4%	0.0%	2.4%	-2.3%	0.0%	2.4%	0.0%	0.0%
Bit supply Growth	-2.6%	18.1%	12.7%	2.1%	19.9%	2.7%	7.7%	6.2%	4.3%	26.6%	2.5%	6.0%	5.8%	4.3%	20.6%

Source: Gartner, Company data, UBS estimates

Figure 36: DRAM vendors' wafers out (k wpm, 12" equivalent)

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Samsung	663	667	668	674	668	676	678	685	689	682	695	707	719	731	713
SK Hynix	475	499	519	544	509	564	572	583	600	580	618	636	654	672	645
Micron	315	313	311	309	312	307	307	307	307	307	317	327	337	347	332
Nanya Tech	49	53	59	60	57	60	60	60	60	60	60	63	70	78	70
CXMT	164	182	198	217	190	232	240	244	256	243	269	284	304	325	295
Other	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Total	1,716	1,764	1,804	1,854	1,784	1,889	1,907	1,929	1,961	1,921	2,009	2,066	2,134	2,203	2,103
% YoY	17.9%	16.5%	13.4%	10.8%	14.5%	10.1%	8.1%	7.0%	5.8%	7.7%	6.3%	8.4%	10.6%	12.3%	9.4%

Source: Gartner, Company data, UBS estimates

Figure 37: DRAM bit demand growth by application

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q226E	Q327E	Q427E	2027E
	QoQ	QoQ	QoQ	QoQ	YoY	QoQ	QoQ	QoQ	QoQ	YoY	QoQ	QoQ	QoQ	QoQ	YoY
Total PC DRAM	-6.1%	13.8%	18.5%	3.0%	20.2%	-15.2%	-2.0%	1.2%	-1.4%	-4.6%	-10.3%	8.8%	17.1%	7.1%	5.0%
Desktops	0.4%	10.8%	9.3%	5.6%	22.8%	-12.9%	-5.4%	-6.1%	0.2%	-9.7%	-3.9%	8.4%	15.2%	10.7%	8.3%
Notebooks	-8.1%	14.6%	20.7%	2.2%	24.3%	-15.3%	-0.2%	2.5%	-1.1%	-2.3%	-10.3%	9.6%	18.3%	7.7%	7.9%
Upgrade Modules	-8.1%	17.3%	27.5%	1.9%	-10.9%	-20.0%	-8.3%	12.1%	-8.3%	-8.7%	-30.0%	0.0%	10.0%	-18.6%	-32.2%
Servers	5.4%	7.2%	35.8%	11.1%	57.3%	0.9%	7.1%	18.6%	9.1%	49.9%	16.8%	19.7%	21.3%	16.8%	83.1%
Graphics	13.2%	13.4%	17.5%	-1.0%	26.8%	-9.7%	5.3%	13.4%	0.0%	10.5%	-8.4%	4.9%	13.1%	-0.2%	8.8%
Game Consoles	22.7%	4.2%	4.0%	1.9%	18.3%	0.3%	2.3%	4.2%	-8.5%	6.5%	2.3%	2.7%	4.3%	-3.4%	1.5%
HDTVs	-17.5%	1.8%	21.2%	5.8%	9.7%	-21.5%	1.3%	16.2%	14.5%	2.0%	-21.1%	3.4%	15.7%	12.2%	7.2%
Total Mobile DRAM	-5.6%	-1.0%	14.1%	10.2%	15.6%	-13.2%	-6.3%	4.4%	12.6%	-0.6%	-7.5%	-2.9%	8.1%	16.0%	7.5%
Smartphones	-4.8%	-1.4%	14.6%	10.1%	16.7%	-13.2%	-7.1%	4.4%	12.8%	-1.2%	-6.8%	-3.5%	8.1%	16.6%	7.8%
Apple	-31.8%	-5.6%	29.4%	80.5%	31.3%	-32.6%	-5.8%	4.7%	74.7%	28.6%	-32.1%	-5.8%	1.1%	87.0%	17.5%
Samsung	26.2%	-7.0%	11.5%	-2.8%	17.6%	8.3%	4.5%	6.9%	-10.0%	14.5%	16.0%	-8.1%	9.5%	-9.5%	-15.9%
Non-Apple/Samsung	-3.0%	1.7%	11.8%	-6.1%	12.0%	-9.7%	-12.4%	3.0%	-3.8%	-16.7%	3.2%	0.2%	11.1%	-3.6%	13.8%
Tablet PCs	-16.0%	5.0%	8.9%	10.2%	3.2%	-13.1%	4.1%	5.3%	10.2%	6.9%	-16.3%	5.3%	8.4%	8.9%	3.2%
Others	4.3%	4.0%	2.8%	2.9%	12.2%	3.0%	2.6%	1.8%	7.3%	12.8%	-11.2%	2.7%	3.6%	8.8%	0.8%
Total Bit Demand	0.2%	4.6%	19.4%	7.9%	27.6%	-4.8%	2.0%	10.4%	8.5%	20.7%	2.8%	11.1%	15.8%	14.5%	40.1%

Source: Gartner, Company data, UBS estimates

Figure 38: DRAM content assumptions (MB/unit) by application

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Total PC	12,038	12,569	12,982	13,302	12,766	13,312	13,548	13,745	13,965	13,637	14,008	14,214	14,697	15,231	14,579
% YoY	9%	12%	15%	16%	13%	11%	8%	6%	5%	7%	5%	5%	7%	9%	7%
Desktops	11,860	12,370	12,422	12,422	12,283	12,422	12,622	12,822	13,022	12,708	13,022	13,222	13,722	14,222	13,589
Notebooks	12,401	13,001	13,601	14,081	13,328	14,081	14,281	14,481	14,681	14,379	14,681	14,881	15,381	15,881	15,252
Upgrade Modules	9,900	10,100	10,300	10,500	10,232	10,500	10,700	10,900	11,100	10,794	11,100	11,100	11,100	11,300	11,144
Servers	667,847	707,847	770,462	836,694	752,827	871,694	916,694	966,694	1,026,434	949,280	1,176,434	1,376,434	1,576,434	1,792,029	1,490,002
% YoY	17%	20%	26%	34%	26%	31%	30%	25%	23%	26%	35%	50%	63%	75%	57%
Smartphones	7,739	7,829	8,255	8,611	8,126	8,664	8,692	8,988	9,333	8,924	9,240	9,104	9,321	10,014	9,438
% YoY	11%	11%	13%	15%	13%	12%	11%	9%	8%	10%	7%	5%	4%	7%	6%
Apple	7,600	7,700	8,940	9,590	8,652	9,690	9,690	10,400	10,800	10,227	11,000	11,000	11,400	12,800	11,711
Samsung	8,619	8,359	8,866	8,764	8,655	9,573	9,202	9,643	9,577	9,496	9,989	9,538	10,126	9,917	7,749
Non-Apple/Samsung	7,500	7,700	7,900	8,100	7,801	8,000	8,100	8,200	8,300	8,143	8,200	8,200	8,300	8,400	8,277

Source: Gartner, Company data, UBS estimates

Figure 39: UBS server DRAM bottom-up model

	2020	2021	2022	2023	2024	2025	2026E	2027E
Total Server shipments (K unit)	13,550	13,967	14,943	14,087	16,025	20,078	23,874	27,844
% YoY	7.5%	3.1%	7.0%	-5.7%	13.8%	25.3%	18.9%	16.6%
Traditional enterprise	5,403	5,147	5,028	4,217	4,283	4,214	4,298	4,384
% YoY	-5.9%	-4.7%	-2.3%	-16.1%	1.6%	-1.6%	2.0%	2.0%
% of total	39.9%	36.8%	33.6%	29.9%	26.7%	21.0%	18.0%	15.7%
Hyperscalers	8,147	8,822	9,915	9,883	11,102	15,864	19,576	23,460
% YoY	25.2%	8.3%	12.4%	-0.3%	12.3%	42.9%	23.4%	19.8%
% of total	60.1%	63.2%	66.4%	70.2%	69.3%	79.0%	82.0%	84.3%
Standard servers	7,355	7,914	8,916	8,841	9,265	14,363	18,164	21,427
% YoY	23.8%	7.6%	12.7%	-0.8%	4.8%	55.0%	26.5%	18.0%
% of total hyperscalers	90.3%	89.7%	89.9%	89.5%	83.5%	90.5%	92.8%	91.3%
% of total servers	54.3%	56.7%	59.7%	62.8%	57.8%	71.5%	76.1%	77.0%
AI Servers	520	630	730	783	1,591	1,243	1,146	1,759
% YoY	73.3%	21.2%	15.9%	7.3%	103.1%	-21.8%	-7.8%	53.5%
% of total hyperscalers	6.4%	7.1%	7.4%	7.9%	14.3%	7.8%	5.9%	7.5%
% of total servers	3.8%	4.5%	4.9%	5.6%	9.9%	6.2%	4.8%	6.3%
Database servers	272	278	270	259	246	258	266	274
% YoY	2.0%	2.0%	-3.0%	-4.0%	-5.0%	5.0%	3.0%	3.0%
% of total hyperscalers	3.3%	3.1%	2.7%	2.6%	2.2%	1.6%	1.4%	1.2%
% of total servers	2.0%	2.0%	1.8%	1.8%	1.5%	1.3%	1.1%	1.0%
Avg. DRAM content (GB)	392	457	461	524	576	735	927	1,455
% YoY	32.5%	16.7%	0.9%	13.5%	9.9%	27.7%	26.1%	57.0%
Traditional enterprise	356	417	420	464	470	480	500	520
% YoY	27.4%	17.3%	0.7%	10.3%	1.4%	2.1%	4.2%	4.0%
Hyperscalers Blended	416	480	482	549	650	803	1,021	1,630
% YoY	27.3%	15.5%	0.4%	13.8%	18.4%	23.5%	27.1%	59.7%
Standard servers	385	430	432	459	464	480	515	555
% YoY	28.3%	11.7%	0.5%	6.3%	1.1%	3.4%	7.3%	7.8%
AI servers	600	840	860	1,348	1,647	4,435	8,961	14,754
% YoY	7.1%	40.0%	2.4%	56.8%	22.1%	169.3%	102.1%	64.7%
Database Servers	900	1,100	1,120	1,200	1,210	1,280	1,340	1,420
% YoY	36.4%	22.2%	1.8%	7.1%	0.8%	5.8%	4.7%	6.0%
Total DRAM Demand (mn Gb)	42,491	51,095	55,158	59,039	73,831	118,088	177,057	324,124
% YoY	42.3%	20.2%	8.0%	7.0%	25.1%	59.9%	49.9%	83.1%
Total DDR Demand (mn Gb)	42,491	51,095	55,158	56,355	65,224	100,602	144,886	262,604
% YoY	42.3%	20.2%	8.0%	2.2%	15.7%	54.2%	44.0%	81.2%
Traditional enterprise	15,382	17,191	16,908	15,641	16,106	16,181	17,193	18,238
% YoY	19.8%	11.8%	-1.6%	-7.5%	3.0%	0.5%	6.3%	6.1%
Hyperscalers	27,110	33,904	38,250	43,398	57,725	101,907	159,864	305,886
% YoY	59.3%	25.1%	12.8%	13.5%	33.0%	76.5%	56.9%	91.3%
Standard servers	22,652	27,225	30,813	32,465	34,393	55,152	74,835	95,136
% YoY	58.9%	20.2%	13.2%	5.4%	5.9%	60.4%	35.7%	27.1%
AI servers	2,496	4,234	5,022	8,448	20,952	44,111	82,179	207,639
% YoY	85.7%	69.6%	18.6%	68.2%	148.0%	110.5%	86.3%	152.7%
HBM DRAM Demand				2,684	8,607	17,486	32,171	61,520
% YoY					220.7%	103.2%	84.0%	91.2%
DDR DRAM Demand				6,081	12,345	26,625	50,009	146,119
% YoY					103.0%	115.7%	87.8%	192.2%
LPDDR / SOCAMM Demand					468	7,613	14,626	38,001
% YoY						1527.9%	92.1%	159.8%
Database Servers	1,962	2,445	2,415	2,484	2,380	2,643	2,850	3,111
% YoY	39.1%	24.7%	-1.2%	2.9%	-4.2%	11.1%	7.8%	9.1%

Source: Dell'Oro Group, Gartner, Company data, UBS estimates

Figure 40: UBS bottom-up server procurement model (k units)

(K Units)	2022	2023	2024	2025	1Q26	2Q26	3Q26E	4Q26E	2026E	1Q27E	2Q27E	3Q27E	4Q27E	2027E
Quarterly														
Alphabet	1,039	1,085	1,247	1,845	530	600	580	640	2,350	720	720	760	750	2,950
AWS	2,237	2,131	2,276	3,087	940	960	1,020	1,000	3,920	1,150	1,180	1,250	1,240	4,820
Microsoft	1,056	1,274	1,468	2,457	680	760	830	820	3,090	850	920	1,000	970	3,740
Meta	2,192	2,027	2,188	3,409	950	1,080	1,100	1,050	4,180	1,200	1,280	1,250	1,260	4,990
Baidu	71	70	37	30	10	10	11	10	41	13	14	13	12	52
Alibaba	376	188	305	456	135	145	155	160	595	158	167	175	180	680
Tencent	118	149	303	268	75	82	88	82	327	82	92	100	95	369
ByteDance	358	550	770	1,306	360	420	430	440	1,650	450	480	520	490	1,940
Total Top 8	7,448	7,473	8,594	12,858	3,680	4,057	4,214	4,202	16,153	4,623	4,853	5,068	4,997	19,541
% YoY	13.5%	0.3%	15.0%	49.6%	28.2%	31.7%	25.0%	18.8%	25.6%	25.6%	19.6%	20.3%	18.9%	21.0%
% QoQ					4.1%	10.2%	3.9%	-0.3%		10.0%	5.0%	4.4%	-1.4%	
Others	2,468	2,410	2,901	1,879	787	839	889	908	3,423	922	999	1,021	977	3,919
Total hyperscale	9,915	9,883	11,494	14,737	4,467	4,896	5,103	5,110	19,576	5,545	5,852	6,089	5,974	23,460
% YoY	12.4%	-0.3%	16.3%	28.2%	38.8%	51.2%	26.5%	20.3%	32.8%	24.1%	19.5%	19.3%	16.9%	19.8%
% QoQ					5.2%	9.6%	4.2%	0.1%		8.5%	5.5%	4.0%	-1.9%	
YoY (%)														
Alphabet	24.0%	4.4%	15.0%	48.0%	51.8%	6.8%	26.9%	34.1%	27.3%	35.8%	20.0%	31.0%	17.2%	25.5%
AWS	24.5%	-4.7%	6.8%	35.6%	40.0%	63.4%	20.0%	2.3%	27.0%	22.3%	22.9%	22.5%	24.0%	23.0%
Microsoft	-2.9%	20.6%	15.3%	67.4%	17.9%	29.3%	20.4%	35.9%	25.7%	25.0%	21.1%	20.5%	18.3%	21.0%
Meta	20.7%	-7.5%	8.0%	55.8%	23.0%	21.3%	23.9%	22.4%	22.6%	26.3%	18.5%	13.6%	20.0%	19.4%
Baidu	-34.0%	-1.6%	-47.9%	-16.5%	44.8%	42.5%	3.4%	68.6%	34.5%	30.0%	40.0%	18.2%	20.0%	26.8%
Alibaba	-10.6%	-50.2%	62.5%	49.6%	81.9%	10.3%	41.3%	13.8%	30.5%	17.0%	15.2%	12.9%	12.5%	14.3%
Tencent	-56.1%	25.9%	103.3%	-11.6%	2.3%	42.6%	103.2%	-12.2%	22.2%	9.3%	12.2%	13.6%	15.9%	12.8%
ByteDance	60.6%	53.8%	39.9%	69.7%	4.0%	63.3%	32.9%	16.0%	26.3%	25.0%	14.3%	20.9%	11.4%	17.6%

Source: Dell'Oro Group, company data, UBS estimates

Figure 41: UBS NAND Flash supply/demand summary

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Revenues (\$ mil)	12,302	14,726	16,969	21,320	65,317	39,006	70,368	89,070	102,157	300,602	109,320	118,629	129,841	134,658	492,447
% QoQ	-20.1%	19.7%	15.2%	25.6%		83.0%	80.4%	26.6%	14.7%		7.0%	8.5%	9.5%	3.7%	
% YoY	-1.0%	-1.1%	4.9%	38.5%	10.9%	217.1%	377.8%	424.9%	379.2%	360.2%	180.3%	68.6%	45.8%	31.8%	63.8%
Supply (Shipments Based) (M 1GB)	201,828	247,795	271,936	273,324	994,882	270,305	288,547	304,362	323,223	1,186,438	335,811	350,391	372,338	386,153	1,444,692
% QoQ	-6.0%	22.8%	9.7%	0.5%		-1.1%	6.7%	5.5%	6.2%		3.9%	4.3%	6.3%	3.7%	
% YoY	-6.3%	15.1%	25.6%	27.3%	15.4%	33.9%	16.4%	11.9%	18.3%	19.3%	24.2%	21.4%	22.3%	19.5%	21.8%
Demand (End Consumption) (M 1GB)	235,552	242,791	280,969	321,309	1,080,621	301,290	309,481	337,580	378,354	1,326,704	369,711	389,868	430,103	485,995	1,675,677
% QoQ	-8.1%	3.1%	15.7%	14.4%		-6.2%	2.7%	9.1%	12.1%		-2.3%	5.5%	10.3%	13.0%	
% YoY	11.4%	13.0%	20.1%	25.4%	17.9%	27.9%	27.5%	20.1%	17.8%	22.8%	22.7%	26.0%	27.4%	28.4%	26.3%
Inventory adjustment	-39,600	3,700	-6,200	-33,500	-75,600	25,000	22,000	-20,000	-50,000	-23,000	-31,000	-36,000	-55,000	-100,000	-222,000
Inventory Adj. Demand (M 1GB)	195,952	246,491	274,769	287,809	1,005,021	326,290	331,481	317,580	328,354	1,303,704	338,711	353,868	375,103	385,995	1,453,677
% QoQ	-8.0%	25.8%	11.5%	4.7%		13.4%	1.6%	-4.2%	3.4%		3.2%	4.5%	6.0%	2.9%	
% YoY	-14.3%	9.9%	24.6%	35.1%	13.4%	66.5%	34.5%	15.6%	14.1%	29.7%	3.8%	6.8%	18.1%	17.6%	11.5%
Wafer out (k wpm, 12" equi.)	1,418	1,288	1,268	1,352	1,331	1,366	1,333	1,338	1,351	1,347	1,331	1,307	1,303	1,299	1,310
% QoQ	-0.4%	-9.2%	-1.5%	6.6%		1.1%	-2.5%	0.4%	1.0%		-1.5%	-1.8%	-0.3%	-0.3%	
% YoY	23.7%	2.5%	-5.8%	-5.1%	2.9%	-3.6%	3.5%	5.5%	-0.1%	1.2%	-2.6%	-2.0%	-2.6%	-3.9%	-2.8%
% Sufficiency Ratio	3.0%	0.5%	-1.0%	-5.0%	-1.0%	-17.2%	-13.0%	-4.2%	-1.6%	-9.0%	-0.9%	-1.0%	-0.7%	0.0%	-0.6%
NAND ASP (\$/1GB)	0.06	0.06	0.06	0.08	0.07	0.14	0.24	0.29	0.32	0.25	0.33	0.34	0.35	0.35	0.34
% QoQ	-15.0%	-2.5%	5.0%	25.0%		85.0%	69.0%	20.0%	8.0%		3.0%	4.0%	3.0%	0.0%	
% YoY	5.8%	-14.1%	-16.5%	8.8%	-3.9%	136.7%	310.4%	369.0%	305.2%	285.9%	125.6%	38.8%	19.2%	10.3%	34.5%

Source: Company data, UBS estimates

Figure 42: NAND Flash vendors' market share in bit shipments

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Samsung	31.0%	31.8%	31.8%	28.5%	30.7%	31.0%	29.6%	29.5%	31.4%	30.4%	30.0%	30.5%	30.0%	29.4%	30.0%
Kioxia	15.3%	12.5%	15.5%	16.2%	14.9%	14.7%	14.2%	14.8%	14.9%	14.7%	15.7%	14.3%	14.2%	14.3%	14.6%
SanDisk	13.2%	11.2%	11.7%	12.0%	12.0%	11.6%	12.7%	12.6%	10.7%	11.9%	10.8%	11.4%	12.3%	12.7%	11.8%
SK Hynix	12.8%	18.2%	15.7%	17.1%	16.1%	15.5%	16.7%	16.3%	16.3%	16.2%	16.0%	16.3%	16.3%	16.1%	16.2%
Micron	14.1%	14.3%	12.6%	13.1%	13.5%	13.7%	13.5%	13.6%	13.6%	13.6%	13.4%	13.3%	12.9%	12.8%	13.1%
YMTC	12.5%	11.3%	11.9%	12.2%	12.0%	12.7%	12.5%	12.5%	12.4%	12.5%	13.3%	13.6%	13.7%	14.0%	13.7%
Total Bit Supply	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Source: Gartner, company data, UBS estimates

Figure 43: NAND Flash bit shipments QoQ and YoY growth

	Q125 QoQ	Q225 QoQ	Q325 QoQ	Q425 QoQ	2025 YoY	Q126 QoQ	Q226 QoQ	Q327E QoQ	Q428E QoQ	2026E YoY	Q127E QoQ	Q227E QoQ	Q327E QoQ	Q427E QoQ	2027E YoY
Samsung	-10.0%	25.9%	10.0%	-10.0%	3.0%	7.5%	2.0%	5.0%	13.2%	18.0%	-0.8%	5.9%	4.7%	1.8%	20.0%
Kioxia	-10.0%	0.0%	36.0%	5.0%	13.5%	-10.0%	3.0%	10.0%	7.0%	17.4%	9.6%	-5.0%	5.0%	5.0%	21.4%
SanDisk	-6.0%	4.0%	15.0%	3.0%	17.7%	-5.0%	17.0%	5.0%	-10.0%	18.0%	5.0%	10.0%	15.0%	7.0%	21.6%
SK Hynix	-16.9%	73.6%	-5.0%	9.6%	11.8%	-10.4%	15.0%	2.7%	6.5%	20.0%	1.7%	6.5%	6.0%	2.5%	21.3%
Micron	3.5%	24.3%	-3.3%	5.0%	25.6%	3.4%	5.0%	6.0%	6.0%	20.4%	3.0%	3.0%	3.0%	3.4%	17.2%
YMTC	15.7%	10.6%	15.5%	3.5%	57.3%	2.3%	5.5%	5.3%	5.2%	24.5%	12.0%	6.2%	7.6%	5.5%	33.1%
Total Bit Supply	-6.0%	22.8%	9.7%	0.5%	15.4%	-1.1%	6.7%	5.5%	6.2%	19.3%	3.9%	4.3%	6.3%	3.7%	21.8%

Source: Gartner, company data, UBS estimates

Figure 44: NAND Flash vendors wafers out (k wpm, 12" equivalent)

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Samsung	471	449	423	409	438	412	405	400	400	404	398	393	388	383	390
Kioxia / SanDisk	470	400	400	480	437	480	460	460	450	463	420	400	400	400	405
SK Hynix	216	189	185	186	194	185	178	183	201	186	208	204	200	196	202
Micron	132	111	111	117	118	130	130	130	130	130	130	130	130	130	130
YMTC	130	140	150	160	145	160	160	165	170	164	175	180	185	190	183
Total	1,418	1,288	1,268	1,352	1,331	1,366	1,333	1,338	1,351	1,347	1,331	1,307	1,303	1,299	1,310
% YoY	23.7%	2.5%	-5.8%	-5.1%	2.9%	-3.6%	3.5%	5.5%	-0.1%	1.2%	-2.6%	-2.0%	-2.6%	-3.9%	-2.8%

Source: Gartner, company data, UBS estimates

Figure 45: NAND Flash bit demand growth by application

	Q125 QoQ	Q225 QoQ	Q325 QoQ	Q425 QoQ	2025 YoY	Q126 QoQ	Q226 QoQ	Q327E QoQ	Q428E QoQ	2026E YoY	Q127E QoQ	Q227E QoQ	Q327E QoQ	Q427E QoQ	2027E YoY
Total Embedded	-8.3%	3.1%	16.1%	14.8%	18.5%	-6.2%	2.8%	9.3%	12.4%	23.6%	-2.2%	5.6%	10.5%	13.3%	27.2%
Smartphones	-11.3%	-6.3%	17.3%	26.6%	16.9%	-21.7%	-6.4%	2.4%	30.6%	2.1%	-16.7%	-4.6%	6.3%	32.3%	8.4%
iPhones	-29.0%	-7.7%	24.8%	69.7%	28.1%	-33.6%	-5.0%	-1.6%	70.4%	15.5%	-32.8%	-5.0%	1.3%	73.4%	9.5%
Samsung	42.2%	-13.4%	10.1%	-8.2%	15.0%	16.2%	-3.9%	7.6%	-12.2%	7.4%	30.6%	-14.1%	7.9%	-11.0%	9.7%
Non- iPhone/Samsung	-5.6%	-0.9%	13.2%	-5.0%	5.5%	-15.1%	-10.2%	5.5%	-1.6%	-18.2%	-2.7%	3.9%	13.7%	-1.5%	5.3%
Tablet PCs	-21.6%	10.0%	9.5%	17.2%	6.4%	-20.2%	12.2%	4.5%	17.0%	11.3%	-24.7%	13.1%	10.6%	14.3%	6.6%
SSD-Total	-6.9%	7.5%	18.9%	11.2%	21.8%	1.4%	5.5%	12.9%	7.3%	36.7%	5.2%	8.9%	12.7%	9.6%	38.6%
SSD (notebooks)	-13.7%	9.3%	15.3%	-1.3%	9.0%	-14.1%	-0.3%	2.4%	0.0%	-6.2%	-10.2%	9.4%	15.7%	6.7%	6.9%
SSD (servers)	-4.0%	9.4%	36.0%	22.6%	45.1%	4.0%	7.4%	18.5%	8.1%	65.7%	10.7%	10.5%	14.0%	10.2%	53.3%
SSD (storage)	10.5%	7.9%	8.0%	10.1%	47.9%	15.2%	11.4%	10.7%	10.2%	53.6%	9.7%	9.3%	8.8%	8.5%	44.8%
SSD (others)	-14.6%	1.4%	-0.5%	0.2%	-12.8%	1.3%	-0.5%	8.8%	8.8%	8.0%	-6.0%	0.2%	9.4%	12.2%	12.5%
Total Flash cards	-0.4%	1.6%	2.2%	-3.4%	-0.4%	-5.4%	-2.8%	-1.6%	-2.9%	-9.8%	-8.1%	-6.8%	-4.4%	-10.8%	-20.0%
Mobile Phones - Flash cards	-6.3%	-1.5%	5.3%	-1.6%	-0.8%	-3.7%	-6.8%	1.5%	-7.4%	-8.8%	7.1%	-0.3%	6.7%	-6.1%	1.4%
Total Bit Demand	-8.1%	3.1%	15.7%	14.4%	17.9%	-6.2%	2.7%	9.1%	12.1%	22.8%	-2.3%	5.5%	10.3%	13.0%	26.3%

Source: Gartner, company data, UBS estimates

Figure 46: NAND Flash content assumptions (GB/unit) by application

	Q125	Q225	Q325	Q425	2025	Q126	Q226	Q326E	Q426E	2026E	Q127E	Q227E	Q327E	Q427E	2027E
Smartphones - Blended	198	193	216	251	216	223	223	227	276	238	243	235	238	293	253
% YoY	14%	14%	11%	22%	15%	12%	16%	5%	10%	10%	9%	5%	5%	6%	6%
iPhones	517	512	573	579	538	576	581	586	594	572	599	604	627	653	610
Samsung	225	203	213	198	210	232	206	217	210	216	247	220	230	222	230
Non- iPhone/Samsung	127	127	132	137	131	127	132	137	142	134	132	137	142	146	139
SSD - Notebook PCs	643	639	674	676	659	663	658	686	706	678	695	681	710	734	706
% YoY	2%	3%	2%	0%	2%	3%	3%	2%	4%	3%	5%	3%	4%	4%	4%
SSD - Servers	3,433	3,775	4,117	4,780	4,083	4,975	5,170	5,366	5,561	5,286	5,951	6,342	6,733	7,123	6,563
% YoY	12%	23%	34%	55%	33%	45%	37%	30%	16%	29%	20%	23%	25%	28%	24%
SSD - Storage	12,383	13,359	14,434	15,885	14,015	16,862	17,838	18,815	19,791	18,386	20,768	21,744	22,721	23,697	22,282
% YoY	57%	47%	41%	39%	45%	36%	34%	30%	25%	31%	23%	22%	21%	20%	21%

Source: Gartner, company data, UBS estimates

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Neutral	FSR is between -6% and 6% of the MRA.	40%	21%
Sell	FSR is > 6% below the MRA.	6%	21%

Source: UBS. Rating allocations are as of 30 June 2026.

1:Percentage of companies under coverage globally within the 12-month rating category.

2:Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.

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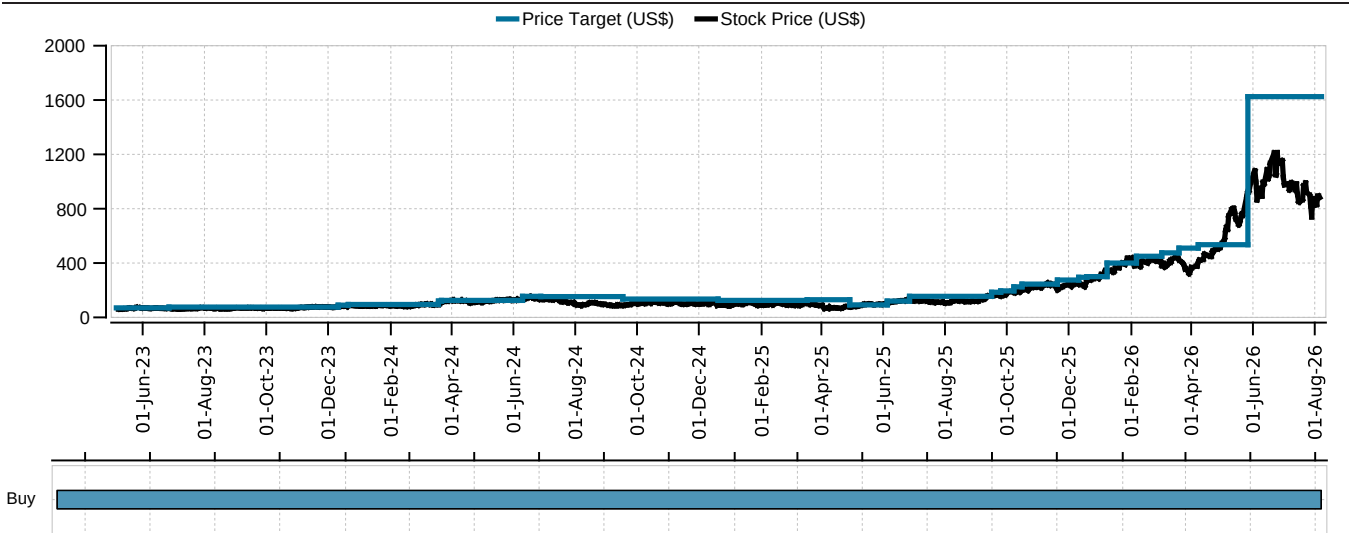
Company Name	Reuters	12-month rating	Price	Price date
CXMT Corporation	688825.SS	No Rating	Rmb52.48	07 Aug 2026
Kioxia Holdings Corp ^{28b}	285A.T	Buy	¥47,730	07 Aug 2026
Micron Technology Inc ^{16,28a}	MU.O	Buy	US\$881.47	06 Aug 2026
Nanya Technology	2408.TW	Buy	NT\$457.00	07 Aug 2026
SK Hynix ^{16,8,28a}	000660.KS	Buy	Won1,422,000	07 Aug 2026
Samsung Electronics ^{2,6,8,28a}	005930.KS	Buy	Won231,000	07 Aug 2026

Source: UBS Global Research; LSEG Eikon. All prices as of local market close. Ratings in this table are the most current published ratings prior to this report. They may be more recent than the stock pricing date.

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Micron Technology Inc (US\$)

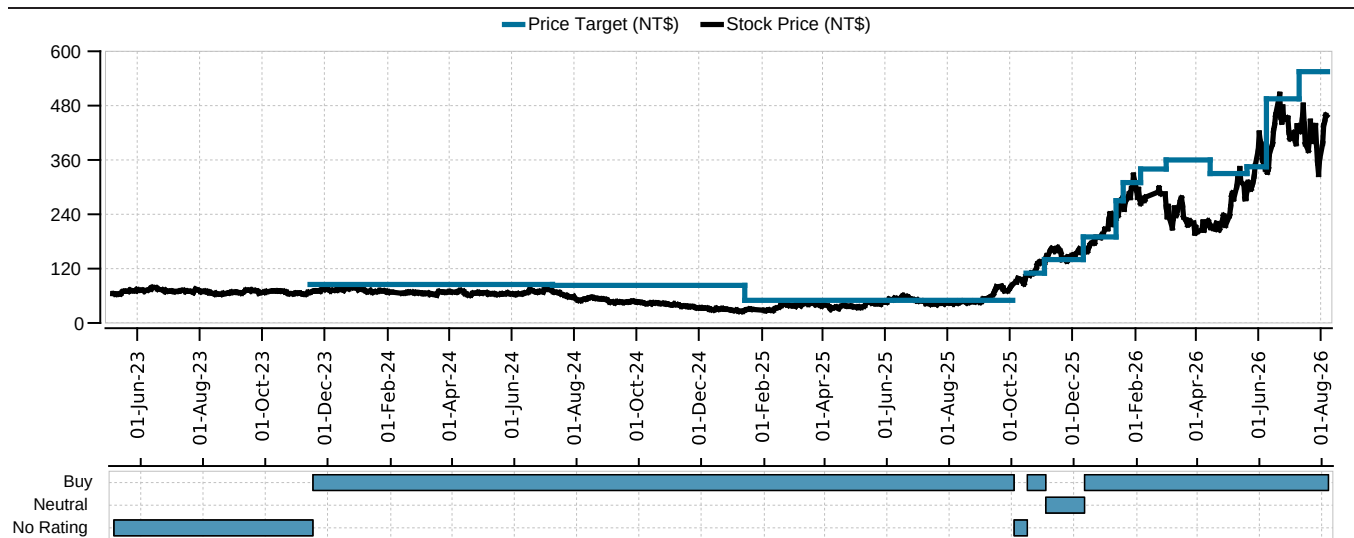


Date	Stock Price (US\$)	Price Target (US\$)	Rating
2023-05-05	61.23	70.00	Buy
2023-06-26	65.45	76.00	Buy
2023-12-10	74.96	90.00	Buy
2023-12-20	78.69	95.00	Buy
2024-03-18	93.78	120.00	Buy

Date	Stock Price (US\$)	Price Target (US\$)	Rating
2024-03-21	109.85	125.00	Buy
2024-06-09	130.94	155.00	Buy
2024-06-27	132.23	153.00	Buy
2024-09-16	87.18	135.00	Buy
2024-12-19	87.09	125.00	Buy
2025-03-17	103.11	130.00	Buy
2025-04-28	78.56	92.00	Buy
2025-06-04	103.25	120.00	Buy
2025-06-26	126.00	155.00	Buy
2025-09-15	157.77	185.00	Buy
2025-09-24	161.71	195.00	Buy
2025-10-07	185.69	225.00	Buy
2025-10-15	191.94	245.00	Buy
2025-11-19	225.92	275.00	Buy
2025-12-10	263.71	295.00	Buy
2025-12-18	248.55	300.00	Buy
2026-01-07	339.55	400.00	Buy
2026-02-05	382.89	450.00	Buy
2026-03-02	412.67	475.00	Buy
2026-03-19	444.27	510.00	Buy
2026-04-07	377.58	535.00	Buy
2026-05-26	895.88	1625.00	Buy

Source: UBS Global Research; LSEG Eikon as of 06-Aug-2026. All prices as of local market close. Ratings as of date shown.

Nanya Technology (NT\$)

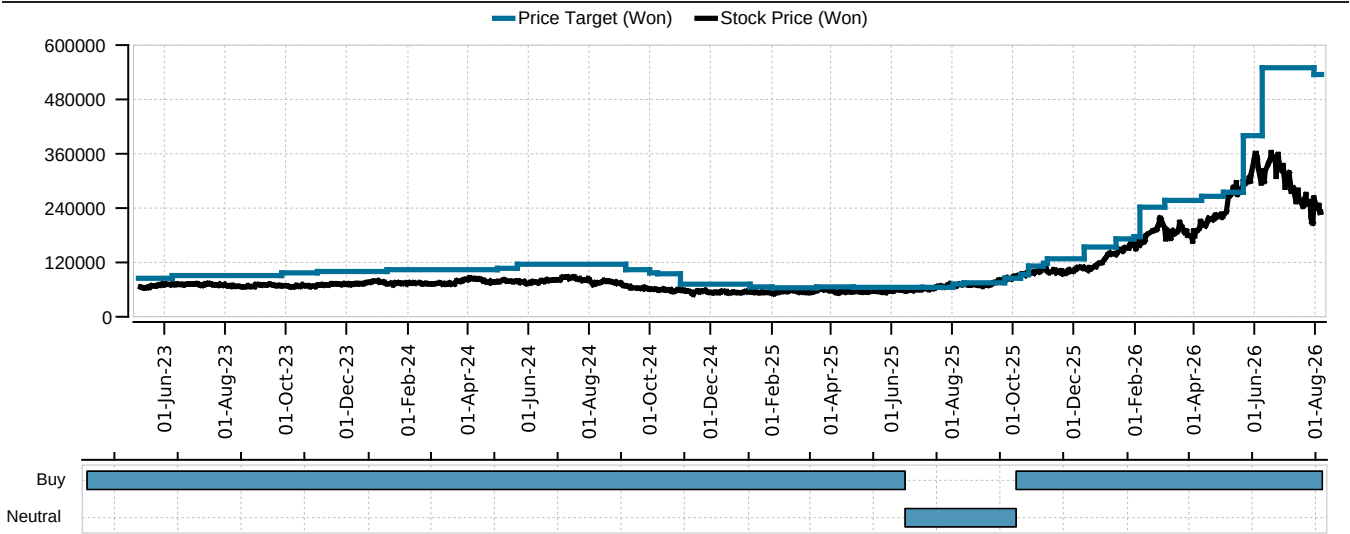


Date	Stock Price (NT\$)	Price Target (NT\$)	Rating
2023-05-05	66.70	-	No Rating
2023-11-16	67.20	85.00	Buy
2024-07-10	72.30	83.00	Buy
2025-01-14	26.65	50.00	Buy
2025-10-03	83.00	-	No Rating
2025-10-16	94.90	110.00	Buy
2025-11-03	137.00	140.00	Neutral
2025-12-11	156.00	190.00	Buy
2026-01-12	239.00	270.00	Buy
2026-01-19	275.00	310.00	Buy
2026-02-05	275.00	340.00	Buy
2026-03-02	285.00	360.00	Buy
2026-04-14	220.00	330.00	Buy
2026-05-20	275.00	345.00	Buy

Date	Stock Price (NT\$)	Price Target (NT\$)	Rating
2026-06-08	339.50	495.00	Buy
2026-07-10	435.50	555.00	Buy

Source: UBS Global Research; LSEG Eikon as of 07-Aug-2026. All prices as of local market close. Ratings as of date shown.

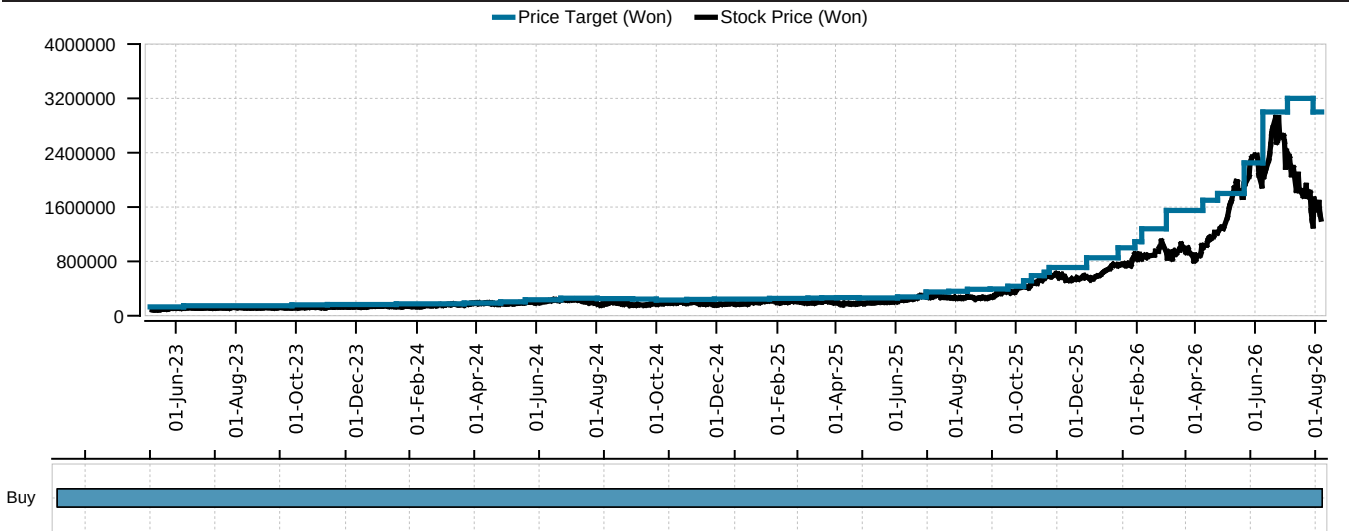
Samsung Electronics (Won)



Date	Stock Price (Won)	Price Target (Won)	Rating
2023-05-05	NaN	85000	Buy
2023-06-08	70900	91000	Buy
2023-09-26	68600	97000	Buy
2023-11-01	68600	100000	Buy
2024-01-10	73600	104000	Buy
2024-04-30	77500	107000	Buy
2024-05-20	78900	116000	Buy
2024-09-06	68900	104000	Buy
2024-09-30	61500	97000	Buy
2024-10-08	60300	95000	Buy
2024-10-31	59200	72000	Buy
2025-01-09	56100	66000	Buy
2025-01-31	52400	64000	Buy
2025-03-17	57600	66000	Buy
2025-04-23	55700	65000	Buy
2025-07-01	60200	65000	Neutral
2025-08-01	68900	72000	Neutral
2025-08-12	71100	75000	Neutral
2025-09-22	83500	85000	Neutral
2025-10-08	89000	93000	Neutral
2025-10-16	97700	112000	Buy
2025-10-31	107500	118000	Buy
2025-11-04	104900	128000	Buy
2025-12-11	107300	154000	Buy
2026-01-12	138800	172000	Buy
2026-01-30	160500	177000	Buy
2026-02-05	159300	242000	Buy
2026-03-02	216500	257000	Buy
2026-04-08	210500	266000	Buy
2026-04-30	220500	275000	Buy
2026-05-20	276000	400000	Buy
2026-06-08	295500	550000	Buy
2026-07-30	207000	535000	Buy

Source: UBS Global Research; LSEG Eikon as of 07-Aug-2026. All prices as of local market close. Ratings as of date shown.

SK Hynix (Won)

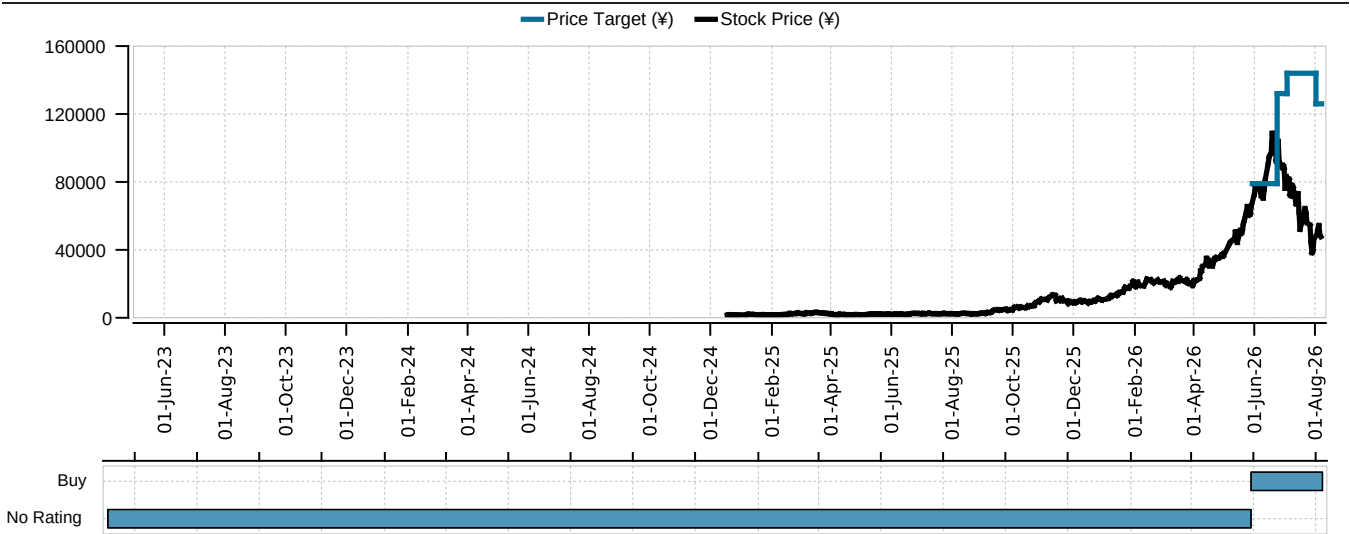


Date	Stock Price (Won)	Price Target (Won)	Rating
2023-05-05	NaN	130000	Buy
2023-06-08	109700	147000	Buy
2023-09-26	115000	160000	Buy
2023-11-01	120300	165000	Buy
2024-01-10	133500	175000	Buy
2024-03-19	160200	187000	Buy
2024-04-25	170600	205000	Buy
2024-05-20	190100	235000	Buy
2024-06-25	225000	258000	Buy
2024-08-01	193300	252000	Buy
2024-09-06	156400	245000	Buy
2024-09-30	174600	231000	Buy
2024-10-31	186300	240000	Buy
2024-11-28	161100	245000	Buy
2025-01-23	219500	255000	Buy
2025-03-03	190200	260000	Buy
2025-03-17	206000	265000	Buy
2025-04-01	197000	267000	Buy
2025-04-24	178300	262000	Buy
2025-06-02	207500	277000	Buy
2025-07-01	285500	350000	Buy
2025-07-24	269500	360000	Buy
2025-08-12	269000	389000	Buy
2025-09-04	265500	394000	Buy
2025-09-22	351000	434000	Buy
2025-10-08	395500	516000	Buy
2025-10-16	452500	590000	Buy
2025-10-29	558000	640000	Buy
2025-11-03	620000	710000	Buy
2025-12-11	565000	853000	Buy
2026-01-12	749000	1000000	Buy
2026-01-29	861000	1090000	Buy
2026-02-05	842000	1280000	Buy
2026-03-02	1061000	1550000	Buy
2026-04-08	1033000	1700000	Buy
2026-04-23	1225000	1800000	Buy
2026-05-20	1745000	2250000	Buy
2026-06-08	1911000	3000000	Buy
2026-07-03	2425000	3200000	Buy

Date	Stock Price (Won)	Price Target (Won)	Rating
2026-07-29	1401000	3000000	Buy

Source: UBS Global Research; LSEG Eikon as of 07-Aug-2026. All prices as of local market close. Ratings as of date shown.

Kioxia Holdings Corp (¥)



Date	Stock Price (¥)	Price Target (¥)	Rating
2023-05-05	NaN	-	No Rating
2026-05-29	65850	79000	Buy
2026-06-23	92290	132000	Buy
2026-07-03	83300	144000	Buy
2026-08-01	46500	126000	Buy

Source: UBS Global Research; LSEG Eikon as of 07-Aug-2026. All prices as of local market close. Ratings as of date shown.

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