Part Number Decoders

August 18, 2025

DRAM Family

Description	Cod	Field	Field DePos.	N		P		-			Positi	Definiti	Cod	Description
											13	Process	A	63nm
INSIGNIS	N	Sup. Nar	1									Node	B	45nm
TECHNOLOGY, INC.												Option 5	C	38nm
													D	25nm
													E	30nm
													F	19nm
DRAM	D	Family	2								11,12	Temp	ET	Extended Test Coverage
LPDRAM	L											Website	IT	Industrial Temp
												Option 4	HT	High Temp (no AEC-Q100)
													AT	Automotive Temp
SDR	S	Function	3								9, 10	Speed &	16	PC166
DDR	D											Latency	20	PC200
DDR2	B											Website	2A	DDR400
DDR3	T											Option 5	25	DDR500
DDR3L	L												4D	800-5-5-5
DDR4	Q												5E	1066-6-6-6
DDR4X	X												8K	1600-11-11-11
													3M	1866-13-13-13
													5G	2133-14-14-14
16Mb	9	Density	4										8N	2400-16-16-16
64Mb	6												8X	2400-17-17-17
128Mb	7												7N	2666-19-19-19
256Mb	3												6N	3200-22-22-22
512Mb	5												3N	3733
1Gb	1												4N	4266
2Gb	2											7, 8	Package	T5	54l TSOPII
4Gb	4												Website	T6	66l TSOPII
8Gb	8												Option 2	T9	86l TSOPII
16Gb	A													BA	54b FBGA (8x8x1.2)
32Gb	B													BE	90b FBGA (8x13x1.2)
													FB	60b FBGA (8x10x1.2)
													FC	84b FBGA (8x12.5x1.2)
													FD	60b FBGA (8x13x1.2)
													FE	96b FBGA (9x13.5x1.2)
x4	4	IO Widtl	5										FG	96b FBGA (9x13)
x8	8	Website											FH	78b FBGA (8x10.5)
x16	6	Option 1											FI	96b FBGA (7.5x13)
x32	3												FJ	96b FBGA (8x13x1.0)
													FK	78b FBGA (7.5x12x1.2)
													FL	134b FBGA (10x11.5x1.0)
													FM	144b LFBGA (12x12x1.4)
													FN	168b LFBGA (12x12x0.9)
	P	Die Rev.	6										FO	78b FBGA (9x10.6x1.2)
													FP	96b FBGA (7.5x13.5x1.2)
													FQ	78b FBGA (7.5x10.6x1.2)
													FR	78b FBGA (7.5x10.5x1.0)
updated 1/9/2025													FS	200b FBGA (10x14.5)

Storage Product Family

INSIGNIS TECHNOLOGY PART NUMBER DECODER

Part number positions: 1 2 3 4 5 6 7 8 9 0 - 1 2 3 → N S _ _ _ _ _ _ _ _ - _ _ _

Description	Code	Field Def.	Pos.
INSIGNIS TECHNOLOGY, INC.	N	Sup. Name	1
Managed NAND Storage	S	Family	2
eMMC	EC	Form Factor	3, 4
		Form Factor	5, 6
eMMC 153b BGA	53	Website	
eMMC 100b BGA	00	Option 1	

Position	Field Definition	Code	Detail Description
13	Option *Option 5*	J	pSLC
11,12	Option	ET	Extended Test Coverage
	Website	IT	Industrial Temp
	Option 4	AT	Automotive Temp
		EP	ET with Power Loss Protection
		IP	IT with Power Loss Protection
		AP	AT with Power Loss Protection
8, 9, 10	Capacity	04	4GB
	Website	08	8GB
	Option 2	016	16GB
		032	32GB
		064	64GB
		096	96GB
		128	128GB
		256	256GB
		512	512GB
		1T0	1TB
		2T0	2TB
7	NAND Technology	K	15nm MLC
	Website	L	TLC
	Option 3	U	19nm MLC
		T	3D TLC
		M	3D MLC
		N	3D QLC

Updated 8/18/25

INSIGNIS TECHNOLOGY CORPORATION