INSIGNIS
TECHNOLOGY CORPORATION

Part Number Decoders

December 3, 2024

DRAM Family

INSIGNIS TECHNOLOGY PART NUMBER DECODER

Description	Cod	Field	Field De	Pos.
				N
INSIGNIS TECHNOLOGY, INC.	N	Sup. Nar	1	
DRAM	D	Family	2	
LPDRAM	L			
SDR	S	Function	3	
DDR	D			
DDR2	B			
DDR3	T			
DDR3L	L			
DDR4	Q			
DDR4X	X			
16Mb	9	Density	4	
64Mb	6			
128Mb	7			
256Mb	3			
512Mb	5			
1Gb	1			
2Gb	2			
4Gb	4			
8Gb	8			
x4	4	IO Width	5	
x8	8	Website		
x16	6	Option 1		
x32	3			
	P	Die Rev.	6	
updated 12/3/2024				

Positi	Field Definitio	Cod	Description
13	Process	A	63nm
	Node	B	45nm
	Option 5	C	38nm
		D	25nm
		E	30nm
		F	19nm
11,12	Temp	ET	Extended Test Coverage
	Website	IT	Industrial Temp
	Option 4	HT	High Temp (no AEC-Q100)
		AT	Automotive Temp
9, 10	Speed &	16	PC166
	Latency	20	PC200
	Website	2A	DDR400
	Option 3	25	DDR500
		4D	800-5-5-5
		5E	1066-6-6-6
		8K	1600-11-11-11
		9M	1866-13-13-13
		5G	2133-14-14-14
		8N	2400-16-16-16
		8X	2400-17-17-17
		7N	2666-13-13-13
		6N	3200-22-22-22
		3N	3733
		4N	4266
7, 8	Package	T5	54I TSOPII
	Website	T6	66I TSOPII
	Option 2	T9	86I TSOPII
		BA	54b FBGA (8x8x1.2)
		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)
		FG	96b FBGA (9x13)
		FH	78b FBGA (8x10.5)
		FI	96b FBGA (7.5x13)
		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)
		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)
		FS	200b FBGA (10x14.5)

INSIGNIS
TECHNOLOGY CORPORATION

Storage Product Family

INSIGNIS TECHNOLOGY PART NUMBER DECODER

				1	2	3	4	5	6	7	8	9	10	-	11	12	13
				N	S									-			
Description	**Code**	**Field Def.**	**Pos.**														
INSIGNIS TECHNOLOGY, INC.	N	**Sup. Name**	1														
Solid State Drive	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 6/2/2022

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