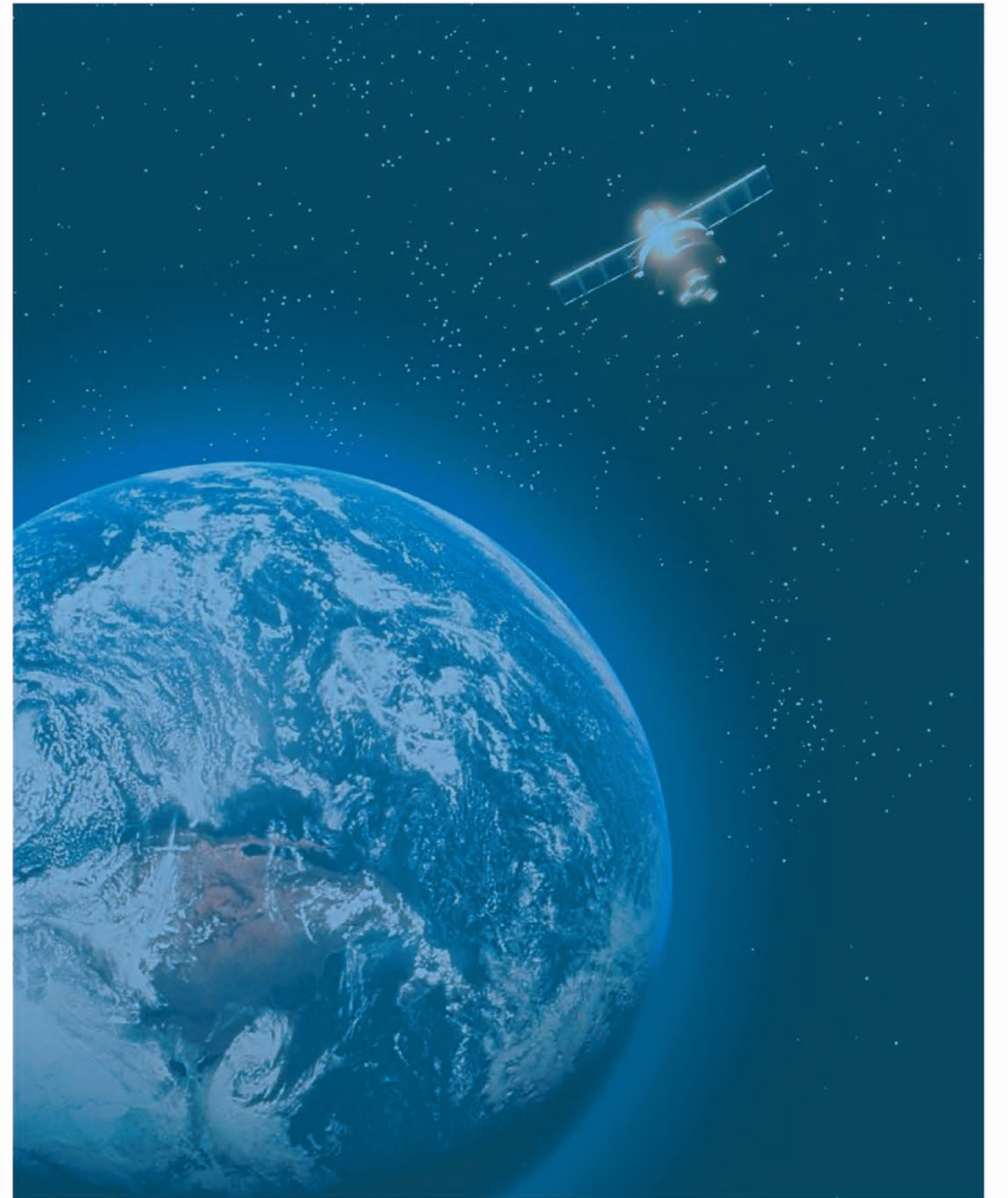




Product Catalogue



• OCE Company Profile

O.C.E. Technology is an Irish company setup to deliver integrated circuit software, training and services to clients developing real-time systems for the aeronautics and aerospace industries. The management team has an established track record in the successful development and sales of processor ICs and boards to large OEMs (Siemens, Intel) and the associated software and operating systems.

Ireland is the premier choice location country for high tech multinationals seeking to enter the European market. This is largely due to the availability of highly skilled engineers in the areas of IC design & verification and software for a wide variety of market areas. Close cooperation between Ireland's world-class universities and academic institutions with these companies ensures a continuing supply of innovative engineers and computer scientists. The vast majority of all US high tech firms (including Microsoft, Google, Intel and IBM) use Ireland as their European headquarters. Located in south Dublin convenient to international travel, O.C.E. Technology provides software development, training and sales support for its range of integrated circuits and system integration products that include High Reliability SOC (System On Chip), Embedded Bus Controller chips, SiP (System in Package), embedded module of bus control (EMBC) and embedded intelligent platform of control (EIPC), among others.

• Location Photos



Product Advantages

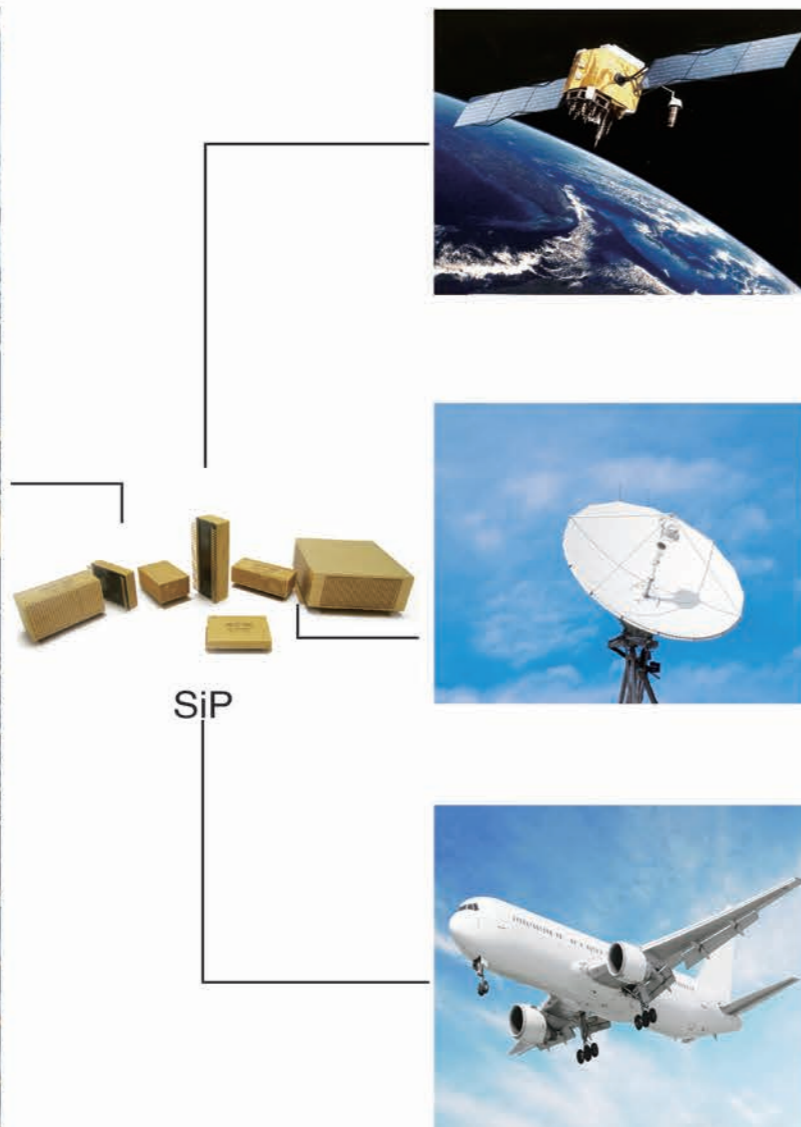


- High Performance, High Reliability.
 - Use of high performance materials
 - Improved mechanical and electrical properties
 - Adoption of international advanced level packaging technology
 - Reduced length of internal signal connection
 - Reduced parasitics
 - Enhanced anti-jamming capability
- High level of integration, High Capacity, Miniaturization.
 - Three-dimensional packaging of memory types (SRAM, SDRAM, FLASH, and MRAM etc.) allows for different bit - wide (8bit, 16bit, 32bit, 40bit, and 64bit) high-capacity memory configurations at each dimension
 - Three-dimensional packaging of complex and large computer circuit boards (e.g. CPU, A/D, and I/O) provides a highly integrated, miniaturized SiP computer system that can be widely used in the fields of Launch Vehicles, Satellites, Aircraft, and Space Shuttles
- Excellent TID and SEE Performance.
 - The integration of high performance, high reliability and radiation hardened components allows for the creation of products with excellent TID and SEE performance

Applications

SiP products are particularly suitable for applications in harsh environments such as:

- Aerospace:
 - Satellite, Spaceship, Launch vehicle, Deep Space Probes
- Communications:
 - Radar, TC/TM systems
- Aviation:
 - Aircraft, Helicopter, Flight data recorder
- Industrial Control:
 - Data Storage, Automation Equipment



Product Marking



Part Number Coding

1	2	3	4	5	6	7	8	9	10	11
Manufacturer	Family	Capacity	Bus width	Radiation	Package	Temperature	Screening	Stack Layer	Voltage	Operation Speed
OCE	XX	nnnX	nn	X	Xnn	X	X	X	X	nn

- 1、Manufacturer
OCE: OCE
- 2、Family
SD: SDRAM SR: SRAM S: SRAM
NF: NAND FLASH RF: NOR FLASH
EE: E²PROM MR: MRAM
1D: DDR1 PO: PROM
3D: DDR3 2D: DDR 2
- 3、Capacity
256: 256Kilo Byte 512: 512KiloByte
25: 256 MegaByte 51: 512 Mega Byte
nnnK: nnnKilobit nnnG: nnnGiga bit
nnnM: nnnMega bit nnnT: nnnTera bit
- 4、Bus Width
04: 04bit 08: 08bit
16: 16 bit 32: 32bit
40: 40bit 48: 48bit
64: 64bit 72: 72bit
nn: nnbit
- 5、Radiation
R: Radiation Data Tested
v: Generic Radiation Data Available
— : Not Applicable
- 6、Package

<u>X</u>	<u>nn</u>
B: BGA	S: SOP
P: PGA	Q: QFP
A: 54-pin SOP B: 58-pin SOP	
Example: "S54" is 54-pin SOP	
- 7、Temperature
E: Engineering(0°C~+70°C) I: Industrial(-40°C~+85°C)
C: Commercial(0°C~+70°C) M: Military(-55°C~+125°C)
S: Specific temperature range
- 8、Screening
E: Engineering N: Commercial B: Industrial
M: Military S: Space
- 9、Stack Layer
1: 1 layer 2: 2 layer 4: 4 layer
8: 8 layer A: 10 layer n: n layer
- 10、Voltage
C: 5V S: 2.8V
U: 1.8 V Y: 1.35V
V: 3.3V T: 2.5V
W: 1.5V
- 11、Operation Speed
SRAM & MRAM
08: 8ns 10: 10ns
12: 12ns 15: 15ns
20: 20ns 35: 35ns
SDRAM
50: 5ns 60: 6 ns
55: 5.5ns 70: 7 ns
75: 7.5ns 80: 8 ns
FLASH&EEPROM&PROM
03: 30ns 05: 50ns
07: 70ns 08: 80ns
09: 90ns 10: 100ns
12: 120ns 13: 130ns
25: 25ns 35: 35ns
DDR

<u>n</u>	<u>n</u>
5: 200MHZ	C: CL3
6: 166MHZ	B: CL2.5
7: 133MHZ	A: CL2
8: 100MHZ	

DDR2

<u>n</u>	<u>n</u>
4: DDR2-400(200MHZ)	A: CL3
5: DDR2-533(266MHZ)	C: CL4
6: DDR2-667(333MHZ)	E: CL5
8: DDR2-800(400MHZ)	G: CL6
9: DDR2-1066(533MHZ)	H: CL7

DDR3

<u>n</u>	<u>n</u>
F: DDR3-1066(533MHZ)	8: CL7
H: DDR3-1033(667MHZ)	9: CL9
K: DDR3-1600(800MHZ)	0: CL11
M: DDR3-1866(933MHZ)	A: CL13

High capacity data storage chip product catalog

SIP SDRAM										
#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCESD512M16VS54EE1V75	512M	32M*16	N/A	N/A	N/A	SOP54	E	E	pro
2	OCESD512M16VS54IB1V75	512M	32M*16	N/A	N/A	N/A	SOP54	I	B	pro
3	OCESD512M16RS54IS1V75	512M	32M*16	50	85	1	SOP54	I	S	pro
4	OCESD512M16RS54SS1V75	512M	32M*16	50	85	1	SOP54	S	S	pro
5	OCESD1G32VS70EE2V75	1G	32M*32	N/A	N/A	N/A	SOP70	E	E	pro
6	OCESD1G32VS70IB2V75	1G	32M*32	N/A	N/A	N/A	SOP70	I	B	pro
7	OCESD1G32RS70IS2V75	1G	32M*32	50	85	1	SOP70	I	S	pro
8	OCESD1G32RS70SS2V75	1G	32M*32	50	85	1	SOP70	S	S	pro
9	OCESD2508BAE	2G	256M*8	N/A	N/A	N/A	SOP54	E	E	pro
10	OCESD2G08VS54EE4V75	2G	256M*8	N/A	N/A	N/A	SOP54	E	E	pro
11	OCESD2G08VS54IB4V75	2G	256M*8	N/A	N/A	N/A	SOP54	I	B	pro
12	OCESD2G08RS54IS4V75	2G	256M*8	50	40	2	SOP54	I	S	pro
13	OCESD2G08RS54SS4V75	2G	256M*8	50	40	2	SOP54	S	S	pro
14	OCESD2G32VS70EE4V75	2G	64M*32	N/A	N/A	N/A	SOP70	E	E	pro
15	OCESD2G32VS70IB4V75	2G	64M*32	N/A	N/A	N/A	SOP70	I	B	pro
16	OCESD2G32RS70IS4V75	2G	64M*32	50	85	1	SOP70	I	S	pro
17	OCESD2G32RS70SS4V75	2G	64M*32	50	85	1	SOP70	S	S	pro
18	OCESD2G40VS70EE5V75	2G	51.2M*40	N/A	N/A	N/A	SOP70	E	E	pro
19	OCESD2G40VS70IB5V75	2G	51.2M*40	N/A	N/A	N/A	SOP70	I	B	pro
20	OCESD2G40RS70IS5V75	2G	51.2M*40	60	80	7	SOP70	I	S	Contact us
21	OCESD2G40RS70SS5V75	2G	51.2M*40	60	80	7	SOP70	S	S	Contact us
22	OCESD3G48VQ114EE6V75	3G	64M*48	N/A	N/A	N/A	QFP114	E	E	pro
23	OCESD3G48VQ114IB6V75	3G	64M*48	N/A	N/A	N/A	QFP114	I	B	pro
24	OCESD3G48RQ114IS6V75	3G	64M*48	50	85	1	QFP114	I	S	pro
25	OCESD3G48RQ114SS6V75	3G	64M*48	50	85	1	QFP114	S	S	pro
26	OCESD5108BAE	4G	512M*8	N/A	N/A	N/A	SOP54	E	E	pro
27	OCESD4G08VS54EE8V75-I	4G	512M*8	N/A	N/A	N/A	SOP54	E	E	pro
28	OCESD4G08VS54IB8V75-I	4G	512M*8	N/A	N/A	N/A	SOP54	I	B	pro
29	OCESD4G08RS54IS8V75-I	4G	512M*8	50	40	2	SOP54	I	S	pro
30	OCESD4G08RS54SS8V75-I	4G	512M*8	50	40	2	SOP54	S	S	pro
31	OCESD4G08VS54EE8V75-II	4G	512M*8	N/A	N/A	N/A	SOP54	E	E	pro
32	OCESD4G08VS54IB8V75-II	4G	512M*8	N/A	N/A	N/A	SOP54	I	B	pro
33	OCESD4G08RS54IS8V75-II	4G	512M*8	50	40	2	SOP54	I	S	pro
34	OCESD4G08RS54SS8V75-II	4G	512M*8	50	40	2	SOP54	S	S	pro
35	OCESD4G16VS62EE8V75	4G	256M*16	N/A	N/A	N/A	SOP62	E	E	pro
36	OCESD4G16VS62IB8V75	4G	256M*16	N/A	N/A	N/A	SOP62	I	B	pro
37	OCESD4G16RS62IS8V75	4G	256M*16	50	85	1	SOP62	I	S	pro
38	OCESD4G16RS62SS8V75	4G	256M*16	50	85	1	SOP62	S	S	pro

SIP SRAM										
#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCESR4M08VS44EE1C12	4M	512K*8	N/A	N/A	N/A	SOP44	E	E	pro
2	OCESR4M08VS44IB1C12	4M	512K*8	N/A	N/A	N/A	SOP44	I	B	pro
3	OCESR4M08VS44MB1C12	4M	512K*8	N/A	N/A	N/A	SOP44	M	B	pro
4	OCESR4M08VS44MM1C12	4M	512K*8	N/A	N/A	N/A	SOP44	M	M	pro
5	OCESR8M16VS54EE2C12	8M	512K*16	N/A	N/A	N/A	SOP54	E	E	pro
6	OCESR8M16VS54IB2C12	8M	512K*16	N/A	N/A	N/A	SOP54	I	B	pro
7	OCESR8M16VS54MB2C12	8M	512K*16	N/A	N/A	N/A	SOP54	M	B	pro
8	OCESR8M16VS54MM2C12	8M	512K*16	N/A	N/A	N/A	SOP54	M	M	pro
9	OCESR8M16RS54IS2C12	8M	512K*16	40	99.8	0.6	SOP54	I	S	pro
10	OCESR8M16RS54MS2C12	8M	512K*16	40	99.8	0.6	SOP54	M	S	pro
11	OCESR8M16RS54SS2C12	8M	512K*16	40	99.8	0.6	SOP54	S	S	pro
12	OCESR8M16VS54EE2V12	8M	512K*16	N/A	N/A	N/A	SOP54	E	E	pro
13	OCESR8M16VS54IB2V12	8M	512K*16	N/A	N/A	N/A	SOP54	I	B	pro
14	OCESR8M16VS54MB2V12	8M	512K*16	N/A	N/A	N/A	SOP54	M	B	pro
15	OCESR8M16VS54MM2V12	8M	512K*16	N/A	N/A	N/A	SOP54	M	M	pro
16	OCESR8M16RS54IS2V12	8M	512K*16	60	76.6	0.7	SOP54	I	S	pro
17	OCESR8M16RS54MS2V12	8M	512K*16	60	76.6	0.7	SOP54	M	S	pro
18	OCESR8M16RS54SS2V12	8M	512K*16	60	76.6	0.7	SOP54	S	S	pro
19	OCESR16M16VS54EE4C12	16M	1M*16	N/A	N/A	N/A	SOP54	E	E	pro
20	OCESR16M16VS54IB4C12	16M	1M*16	N/A	N/A	N/A	SOP54	I	B	pro
21	OCESR16M16VS54MB4C12	16M	1M*16	N/A	N/A	N/A	SOP54	M	B	pro
22	OCESR16M16VS54MM4C12	16M	1M*16	N/A	N/A	N/A	SOP54	M	M	pro
23	OCESR16M16RS54IS4C12	16M	1M*16	40	99.8	0.6	SOP54	I	S	pro
24	OCESR16M16RS54MS4C12	16M	1M*16	40	99.8	0.6	SOP54	M	S	pro
25	OCESR16M16RS54SS4C12	16M	1M*16	40	99.8	0.6	SOP54	S	S	pro
26	OCESR16M16VS54EE4V12	16M	1M*16	N/A	N/A	N/A	SOP54	E	E	pro
27	OCESR16M16VS54IB4V12	16M	1M*16	N/A	N/A	N/A	SOP54	I	B	pro
28	OCESR16M16VS54MB4V12	16M	1M*16	N/A	N/A	N/A	SOP54	M	B	pro
29	OCESR16M16VS54MM4V12	16M	1M*16	N/A	N/A	N/A	SOP54	M	M	pro
30	OCESR16M16RS54IS4V12	16M	1M*16	60	76.6	0.7	SOP54	I	S	pro
31	OCESR16M16RS54MS4V12	16M	1M*16	60	76.6	0.7	SOP54	M	S	pro
32	OCESR16M16RS54SS4V12	16M	1M*16	60	76.6	0.7	SOP54	S	S	pro
33	OCESR16M32VS64EE4C12	16M	512K*32	N/A	N/A	N/A	SOP64	E	E	pro
34	OCESR16M32VS64IB4C12	16M	512K*32	N/A	N/A	N/A	SOP64	I	B	pro
35	OCESR16M32VS64MB4C12	16M	512K*32	N/A	N/A	N/A	SOP64	M	B	pro
36	OCESR16M32VS64MM4C12	16M	512K*32	N/A	N/A	N/A	SOP64	M	M	pro
37	OCESR16M32RS64IS4C12	16M	512K*32	40	99.8	0.6	SOP64	I	S	pro
38	OCESR16M32RS64MS4C12	16M	512K*32	40	99.8	0.6	SOP64	M	S	pro
39	OCESR16M32RS64SS4C12	16M	512K*32	40	99.8	0.6	SOP64	S	S	pro
40	OCESR16M32VS64EE4V12	16M	512K*32	N/A	N/A	N/A	SOP64	E	E	pro
41	OCESR16M32VS64IB4V12	16M	512K*32	N/A	N/A	N/A	SOP64	I	B	pro
42	OCESR16M32VS64MB4V12	16M	512K*32	N/A	N/A	N/A	SOP64	M	B	pro
43	OCESR16M32VS64MM4V12	16M	512K*32	N/A	N/A	N/A	SOP64	M	M	pro
44	OCESR16M32RS64IS4V12	16M	512K*32	60	76.6	0.7	SOP64	I	S	pro

SIP SRAM

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
45	OCESR16M32RS64MS4V12	16M	512K*32	60	76.6	0.7	SOP64	M	S	pro
46	OCESR16M32RS64SS4V12	16M	512K*32	60	76.6	0.7	SOP64	S	S	pro
47	OCESR20M40VS84EE6V12	20M	512K*40	N/A	N/A	N/A	SOP84	E	E	pro
48	OCESR20M40VS84IB6V12	20M	512K*40	N/A	N/A	N/A	SOP84	I	B	pro
49	OCESR20M40VS84MB6V12	20M	512K*40	N/A	N/A	N/A	SOP84	M	B	pro
50	OCESR20M40VS84MM6V12	20M	512K*40	N/A	N/A	N/A	SOP84	M	M	pro
51	OCESR20M40RS84IS6V12	20M	512K*40	60	76.6	0.7	SOP84	I	S	pro
52	OCESR20M40RS84MS6V12	20M	512K*40	60	76.6	0.7	SOP84	M	S	pro
53	OCESR20M40RS84SS6V12	20M	512K*40	60	76.6	0.7	SOP84	S	S	pro
54	OCESR32M32VS68EE8V12-I	32M	1M*32	N/A	N/A	N/A	SOP68	E	E	pro
55	OCESR32M32VS68IB8V12-I	32M	1M*32	N/A	N/A	N/A	SOP68	I	B	pro
56	OCESR32M32VS68MB8V12-I	32M	1M*32	N/A	N/A	N/A	SOP68	M	B	pro
57	OCESR32M32VS68MM8V12-I	32M	1M*32	N/A	N/A	N/A	SOP68	M	M	pro
58	OCESR32M32RS68IS8V12-I	32M	1M*32	60	76.6	0.7	SOP68	I	S	pro
59	OCESR32M32RS68MS8V12-I	32M	1M*32	60	76.6	0.7	SOP68	M	S	pro
60	OCESR32M32RS68SS8V12-I	32M	1M*32	60	76.6	0.7	SOP68	S	S	pro
61	OCESR32M32VS68EE8V12-II	32M	1M*32	N/A	N/A	N/A	SOP68	E	E	pro
62	OCESR32M32VS68IB8V12-II	32M	1M*32	N/A	N/A	N/A	SOP68	I	B	pro
63	OCESR32M32VS68MB8V12-II	32M	1M*32	N/A	N/A	N/A	SOP68	M	B	pro
64	OCESR32M32VS68MM8V12-II	32M	1M*32	N/A	N/A	N/A	SOP68	M	M	pro
65	OCESR32M32RS68IS8V12-II	32M	1M*32	60	76.6	0.7	SOP68	I	S	pro
66	OCESR32M32RS68MS8V12-II	32M	1M*32	60	76.6	0.7	SOP68	M	S	pro
67	OCESR32M32RS68SS8V12-II	32M	1M*32	60	76.6	0.7	SOP68	S	S	pro

SIP NOR FLASH

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCERF64M16VS54EE1V90	64M	4M*16	N/A	N/A	N/A	SOP44	E	E	pro
2	OCERF64M16VS54IB1V90	64M	4M*16	N/A	N/A	N/A	SOP44	I	B	pro
3	OCERF64M16VS54MB1V90	64M	4M*16	N/A	N/A	N/A	SOP44	M	B	pro
4	OCERF64M16VS54MM1V90	64M	4M*16	N/A	N/A	N/A	SOP44	M	M	pro
5	OCERF64M16RS54IS1V90	64M	4M*16	15	47.5	6	SOP54	I	S	Contact us
6	OCERF64M16RS54MS1V90	64M	4M*16	15	47.5	6	SOP54	M	S	Contact us
7	OCERF64M16RS54SS1V90	64M	4M*16	15	47.5	6	SOP54	S	S	Contact us
8	OCERF128M16VS54EE2V90	128M	8M*16	N/A	N/A	N/A	SOP54	E	E	pro
9	OCERF128M16VS54IB2V90	128M	8M*16	N/A	N/A	N/A	SOP54	I	B	pro
10	OCERF128M16VS54MB2V90	128M	8M*16	N/A	N/A	N/A	SOP54	M	B	pro
11	OCERF128M16VS54MM2V90	128M	8M*16	N/A	N/A	N/A	SOP54	M	M	pro
12	OCERF128M16RS54IS2V90	128M	8M*16	15	47.5	6	SOP54	I	S	Contact us
13	OCERF128M16RS54MS2V90	128M	8M*16	15	47.5	6	SOP54	M	S	Contact us
14	OCERF128M16RS54SS2V90	128M	8M*16	15	47.5	6	SOP54	S	S	Contact us
15	OCERF256M16VS54EE4V90-I	256M	8M*16	N/A	N/A	N/A	SOP54	E	E	pro
16	OCERF256M16VS54IB4V90-I	256M	8M*16	N/A	N/A	N/A	SOP54	I	B	pro
17	OCERF256M16VS54MB4V90-I	256M	16M*16	N/A	N/A	N/A	SOP54	M	B	pro

SIP NOR FLASH

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
18	OCERF256M16VS54MM4V90-I	256M	16M*16	N/A	N/A	N/A	SOP54	M	M	pro
19	OCERF256M16RS54IS4V90-I	256M	16M*16	15	47.5	6	SOP54	I	S	Contact us
20	OCERF256M16RS54MS4V90-I	256M	16M*16	15	47.5	6	SOP54	M	S	Contact us
21	OCERF256M16RS54SS4V90-I	256M	16M*16	15	47.5	6	SOP54	S	S	Contact us
22	OCERF256M16VS54EE4V90-II	256M	16M*16	N/A	N/A	N/A	SOP54	E	E	pro
23	OCERF256M16VS54IB4V90-II	256M	16M*16	N/A	N/A	N/A	SOP54	I	B	pro
24	OCERF256M16VS54MB4V90-II	256M	16M*16	N/A	N/A	N/A	SOP54	M	B	pro
25	OCERF256M16VS54MM4V90-II	256M	16M*16	N/A	N/A	N/A	SOP54	M	M	pro
26	OCERF256M16RS54IS4V90-II	256M	16M*16	15	47.5	6	SOP54	I	S	Contact us
27	OCERF256M16RS54MS4V90-II	256M	16M*16	15	47.5	6	SOP54	M	S	Contact us
28	OCERF256M16RS54SS4V90-II	256M	16M*16	15	47.5	6	SOP54	S	S	Contact us

SIP NAND FLASH

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCENF2G08VS48EE1V25	2G	256M*8	N/A	N/A	N/A	SOP48	E	E	pro
2	OCENF2G08VS48IB1V25	2G	256M*8	N/A	N/A	N/A	SOP48	I	B	pro
3	OCENF2G08VS48MB1V25	2G	256M*8	N/A	N/A	N/A	SOP48	M	B	pro
4	OCENF2G08VS48MM1V25	2G	256M*8	N/A	N/A	N/A	SOP48	M	M	pro
5	OCENF8G08VS48EE1V25	8G	1G*8	N/A	N/A	N/A	SOP48	E	E	pro
6	OCENF8G08VS48IB1V25	8G	1G*8	N/A	N/A	N/A	SOP48	I	B	pro
7	OCENF8G08VS48MB1V25	8G	1G*8	N/A	N/A	N/A	SOP48	M	B	pro
8	OCENF8G08VS48MM1V25	8G	1G*8	N/A	N/A	N/A	SOP48	M	M	pro
9	OCENF8G08RS48IS1V25	8G	1G*8	50	50	2	SOP48	I	S	pro
10	OCENF8G08RS48MS1V25	8G	1G*8	50	50	2	SOP48	M	S	pro
11	OCENF8G08RS48SS1V25	8G	1G*8	50	50	2	SOP48	S	S	pro
12	OCENF8G08VS48EE1V25-K	8G	1G*8	N/A	N/A	N/A	SOP48	E	E	pro
13	OCENF8G08VS48IB1V25-K	8G	1G*8	N/A	N/A	N/A	SOP48	I	B	pro
14	OCENF8G08VS48MB1V25-K	8G	1G*8	N/A	N/A	N/A	SOP48	M	B	pro
15	OCENF8G08VS48MM1V25-K	8G	1G*8	N/A	N/A	N/A	SOP48	M	M	pro
16	OCENF8G08RS48IS1V25-K	8G	1G*8	50	50	2	SOP48	I	S	pro
17	OCENF8G08RS48MS1V25-K	8G	1G*8	50	50	2	SOP48	M	S	pro
18	OCENF8G08RS48SS1V25-K	8G	1G*8	50	50	2	SOP48	S	S	pro
19	OCENF16G08VS50EE2V25	16G	2G*8	N/A	N/A	N/A	SOP50	E	E	pro
20	OCENF16G08VS50IB2V25	16G	2G*8	N/A	N/A	N/A	SOP50	I	B	pro
21	OCENF16G08VS50MB2V25	16G	2G*8	N/A	N/A	N/A	SOP50	M	B	pro
22	OCENF16G08VS50MM2V25	16G	2G*8	N/A	N/A	N/A	SOP50	M	M	pro
23	OCENF16G08RS50IS2V25	16G	2G*8	50	50	2	SOP50	I	S	pro
24	OCENF16G08RS50MS2V25	16G	2G*8	50	50	2	SOP50	M	S	pro
25	OCENF16G08RS50SS2V25	16G	2G*8	50	50	2	SOP50	S	S	pro
26	OCENF16G08VS50EE4V25	16G	2G*8	N/A	N/A	N/A	SOP50	E	E	pro
27	OCENF16G08VS50IB4V25	16G	2G*8	N/A	N/A	N/A	SOP50	I	B	pro
28	OCENF16G08VS50MB4V25	16G	2G*8	N/A	N/A	N/A	SOP50	M	B	pro

SIP NAND FLASH

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
29	OCENF16G08VS50MM4V25	16G	2G*8	N/A	N/A	N/A	SOP50	M	M	pro
30	OCENF16G08RS50IS4V25	16G	2G*8	50	50	2	SOP50	I	S	pro
31	OCENF16G08RS50MS4V25	16G	2G*8	50	50	2	SOP50	M	S	pro
32	OCENF16G08RS50SS4V25	16G	2G*8	50	50	2	SOP50	S	S	pro
33	OCENF32G08VS50EE4V25	32G	4G*8	N/A	N/A	N/A	SOP50	E	E	pro
34	OCENF32G08VS50IB4V25	32G	4G*8	N/A	N/A	N/A	SOP50	I	B	pro
35	OCENF32G08VS50MB4V25	32G	4G*8	N/A	N/A	N/A	SOP50	M	B	pro
36	OCENF32G08VS50MM4V25	32G	4G*8	N/A	N/A	N/A	SOP50	M	M	pro
37	OCENF32G08RS50IS4V25	32G	4G*8	50	50	2	SOP50	I	S	pro
38	OCENF32G08RS50MS4V25	32G	4G*8	50	50	2	SOP50	M	S	pro
39	OCENF32G08RS50SS4V25	32G	4G*8	50	50	2	SOP50	S	S	pro
40	OCENF32G08VS50EE8V25	32G	4G*8	N/A	N/A	N/A	SOP50	E	E	pro
41	OCENF32G08VS50IB8V25	32G	4G*8	N/A	N/A	N/A	SOP50	I	B	pro
42	OCENF32G08VS50MB8V25	32G	4G*8	N/A	N/A	N/A	SOP50	M	B	pro
43	OCENF32G08VS50MM8V25	32G	4G*8	N/A	N/A	N/A	SOP50	M	M	pro
44	OCENF32G08RS50IS8V25	32G	4G*8	50	50	2	SOP50	I	S	pro
45	OCENF32G08RS50MS8V25	32G	4G*8	50	50	2	SOP50	M	S	pro
46	OCENF32G08RS50SS8V25	32G	4G*8	50	50	2	SOP50	S	S	pro
47	OCENF64G08VS50EE8V25-F	64G	8G*8	N/A	N/A	N/A	SOP50	E	E	pro
48	OCENF64G08VS50IB8V25-F	64G	8G*8	N/A	N/A	N/A	SOP50	I	B	pro
49	OCENF64G08VS50MB8V25-F	64G	8G*8	N/A	N/A	N/A	SOP50	M	B	pro
50	OCENF64G08VS50MM8V25-F	64G	8G*8	N/A	N/A	N/A	SOP50	M	M	pro
51	OCENF64G08RS50IS8V25-F	64G	8G*8	50	50	2	SOP50	I	S	pro
52	OCENF64G08RS50MS8V25-F	64G	8G*8	50	50	2	SOP50	M	S	pro
53	OCENF64G08RS50SS8V25-F	64G	8G*8	50	50	2	SOP50	S	S	pro
54	OCENF64G08VS50EE8V25-K	64G	8G*8	N/A	N/A	N/A	SOP50	E	E	pro
55	OCENF64G08VS50IB8V25-K	64G	8G*8	N/A	N/A	N/A	SOP50	I	B	pro
56	OCENF64G08VS50MB8V25-K	64G	8G*8	N/A	N/A	N/A	SOP50	M	B	pro
57	OCENF64G08VS50MM8V25-K	64G	8G*8	N/A	N/A	N/A	SOP50	M	M	pro
58	OCENF64G08RS50IS8V25-K	64G	8G*8	50	50	2	SOP50	I	S	pro
59	OCENF64G08RS50MS8V25-K	64G	8G*8	50	50	2	SOP50	M	S	pro
60	OCENF64G08RS50SS8V25-K	64G	8G*8	50	50	2	SOP50	S	S	pro
61	OCENF64G16VS58EE8V25-F	64G	4G*16	N/A	N/A	N/A	SOP58	E	E	pro
62	OCENF64G16VS58IB8V25-F	64G	4G*16	N/A	N/A	N/A	SOP58	I	B	pro
63	OCENF64G16VS58MB8V25-F	64G	4G*16	N/A	N/A	N/A	SOP58	M	B	pro
64	OCENF64G16VS58MM8V25-F	64G	4G*16	N/A	N/A	N/A	SOP58	M	M	pro
65	OCENF64G16RS58IS8V25-F	64G	4G*16	50	50	2	SOP58	I	S	pro
66	OCENF64G16RS58MS8V25-F	64G	4G*16	50	50	2	SOP58	M	S	pro
67	OCENF64G16RS58SS8V25-F	64G	4G*16	50	50	2	SOP58	S	S	pro
68	OCENF64G16VS58EE8V25-K	64G	4G*16	N/A	N/A	N/A	SOP58	E	E	pro
69	OCENF64G16VS58IB8V25-K	64G	4G*16	N/A	N/A	N/A	SOP58	I	B	pro
70	OCENF64G16VS58MB8V25-K	64G	4G*16	N/A	N/A	N/A	SOP58	M	B	pro
71	OCENF64G16VS58MM8V25-K	64G	4G*16	N/A	N/A	N/A	SOP58	M	M	pro

SIP NAND FLASH

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
72	OCENF64G16RS58IS8V25-K	64G	4G*16	50	50	2	SOP58	I	S	pro
73	OCENF64G16RS58MS8V25-K	64G	4G*16	50	50	2	SOP58	M	S	pro
74	OCENF64G16RS58SS8V25-K	64G	4G*16	50	50	2	SOP58	S	S	pro
75	OCENF128G08VS48EE1V25	128G	16G*8	N/A	N/A	N/A	SOP48	E	E	pro
76	OCENF128G08VS48IB1V25	128G	16G*8	N/A	N/A	N/A	SOP48	I	B	pro
77	OCENF128G08VS48MB1V25	128G	16G*8	N/A	N/A	N/A	SOP48	M	B	pro
78	OCENF128G08VS48MM1V25	128G	16G*8	N/A	N/A	N/A	SOP48	M	M	pro

SIP MRAM

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCEMR1M08VS44EE1V35	1M	128K*8	N/A	N/A	N/A	SOP44	E	E	pro
2	OCEMR1M08VS44IB1V35	1M	128K*8	N/A	N/A	N/A	SOP44	I	B	pro
3	OCEMR1M08VS44MB1V35	1M	128K*8	N/A	N/A	N/A	SOP44	M	B	pro
4	OCEMR1M08VS44MM1V35	1M	128K*8	N/A	N/A	N/A	SOP44	M	M	pro
5	OCEMR1M08VS44IS1V35	1M	128K*8	60	37.2	37.2	SOP44	I	S	pro
6	OCEMR1M08VS44MS1V35	1M	128K*8	60	37.2	37.2	SOP44	M	S	pro
7	OCEMR1M08VS44SS1V35	1M	128K*8	60	37.2	37.2	SOP44	S	S	pro
8	OCEMR4M08VS44EE4V35	4M	512K*8	N/A	N/A	N/A	SOP44	E	E	pro
9	OCEMR4M08VS44IB4V35	4M	512K*8	N/A	N/A	N/A	SOP44	I	B	pro
10	OCEMR4M08VS44MB4V35	4M	512K*8	N/A	N/A	N/A	SOP44	M	B	pro
11	OCEMR4M08VS44MM4V35	4M	512K*8	N/A	N/A	N/A	SOP44	M	M	pro
12	OCEMR4M08VS44IS4V35	4M	512K*8	60	37.2	37.2	SOP44	I	S	pro
13	OCEMR4M08RS44MS4V35	4M	512K*8	60	37.2	37.2	SOP44	M	S	pro
14	OCEMR4M08RS44SS4V35	4M	512K*8	60	37.2	37.2	SOP44	S	S	pro
15	OCEMR8M32RS68EE8V35	8M	256K*32	N/A	N/A	N/A	SOP68	E	E	pro
16	OCEMR8M32VS68IB8V35	8M	256K*32	N/A	N/A	N/A	SOP68	I	B	pro
17	OCEMR8M32VS68MB8V35	8M	256K*32	N/A	N/A	N/A	SOP68	M	B	pro
18	OCEMR8M32VS68MM8V35	8M	256K*32	N/A	N/A	N/A	SOP68	M	M	pro
19	OCEMR8M32RS68IS8V35	8M	256K*32	60	37.2	37.2	SOP68	I	S	pro
20	OCEMR8M32RS68MS8V35	8M	256K*32	60	37.2	37.2	SOP68	M	S	pro
21	OCEMR8M32RS68SS8V35	8M	256K*32	60	37.2	37.2	SOP68	S	S	pro
22	OCEMR20M40VS84EE5V35	20M	512K*40	N/A	N/A	N/A	SOP84	E	E	pro
23	OCEMR20M40VS84IB5V35	20M	512K*40	N/A	N/A	N/A	SOP84	I	B	pro
24	OCEMR20M40VS84MB5V35	20M	512K*40	N/A	N/A	N/A	SOP84	M	B	pro
25	OCEMR20M40VS84MM5V35	20M	512K*40	N/A	N/A	N/A	SOP84	M	M	pro
26	OCEMR20M40RS84IS5V35	20M	512K*40	60	99.8	37.2	SOP84	I	S	pro
27	OCEMR20M40RS84MS5V35	20M	512K*40	60	99.8	37.2	SOP84	M	S	pro
28	OCEMR20M40RS84SS5V35	20M	512K*40	60	99.8	37.2	SOP84	S	S	pro
29	OCEMR64M08VS54EE4V35	64M	8M*8	N/A	N/A	N/A	SOP54	E	E	pro
30	OCEMR64M08VS54IB4V35	64M	8M*8	N/A	N/A	N/A	SOP54	I	B	pro
31	OCEMR64M08VS54MB4V35	64M	8M*8	N/A	N/A	N/A	SOP54	M	B	pro
32	OCEMR64M08VS54MM4V35	64M	8M*8	N/A	N/A	N/A	SOP54	M	M	pro

SIP EEPROM

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCEEE1M08VS40EE1C250	1M	128K*8	N/A	N/A	N/A	SOP40	E	E	pro
2	OCEEE1M08VS40IB1C250	1M	128K*8	N/A	N/A	N/A	SOP40	I	B	pro
3	OCEEE1M08VS40MB1C250	1M	128K*8	N/A	N/A	N/A	SOP40	M	B	pro
4	OCEEE1M08VS40MM1C250	1M	128K*8	N/A	N/A	N/A	SOP40	M	M	pro
5	OCEEE1M08RS40IS1C250	1M	128K*8	30	99.8	99.8	SOP40	I	S	pro
6	OCEEE1M08RS40MS1C250	1M	128K*8	30	99.8	99.8	SOP40	M	S	pro
7	OCEEE1M08RS40SS1C250	1M	128K*8	30	99.8	99.8	SOP40	S	S	pro
8	OCEEE1M08VS40EE1V250	1M	128K*8	N/A	N/A	N/A	SOP40	E	E	pro
9	OCEEE1M08VS40IB1V250	1M	128K*8	N/A	N/A	N/A	SOP40	I	B	pro
10	OCEEE1M08VS40MB1V250	1M	128K*8	N/A	N/A	N/A	SOP40	M	B	pro
11	OCEEE1M08VS40MM1V250	1M	128K*8	N/A	N/A	N/A	SOP40	M	M	pro
12	OCEEE1M08RS40IS1V250	1M	128K*8	30	99.8	99.8	SOP40	I	S	pro
13	OCEEE1M08RS40MS1V250	1M	128K*8	30	99.8	99.8	SOP40	M	S	pro
14	OCEEE1M08RS40SS1V250	1M	128K*8	30	99.8	99.8	SOP40	S	S	pro
15	OCEEE4M08VS40EE4C250	4M	512K*8	N/A	N/A	N/A	SOP40	E	E	pro
16	OCEEE4M08VS40IB4C250	4M	512K*8	N/A	N/A	N/A	SOP40	I	B	pro
17	OCEEE4M08VS40MB4C250	4M	512K*8	N/A	N/A	N/A	SOP40	M	B	pro
18	OCEEE4M08VS40MM4C250	4M	512K*8	N/A	N/A	N/A	SOP40	M	M	pro
19	OCEEE4M08RS40IS4C250	4M	512K*8	30	99.8	99.8	SOP40	I	S	pro
20	OCEEE4M08RS40MS4C250	4M	512K*8	30	99.8	99.8	SOP40	M	S	pro
21	OCEEE4M08RS40SS4C250	4M	512K*8	30	99.8	99.8	SOP40	S	S	pro
22	OCEEE4M08VS40EE4V250	4M	512K*8	N/A	N/A	N/A	SOP40	E	E	pro
23	OCEEE4M08VS40IB4V250	4M	512K*8	N/A	N/A	N/A	SOP40	I	B	pro
24	OCEEE4M08VS40MB4V250	4M	512K*8	N/A	N/A	N/A	SOP40	M	B	pro
25	OCEEE4M08VS40MM4V250	4M	512K*8	N/A	N/A	N/A	SOP40	M	M	pro
26	OCEEE4M08RS40IS4V250	4M	512K*8	30	99.8	99.8	SOP40	I	S	pro
27	OCEEE4M08RS40MS4V250	4M	512K*8	30	99.8	99.8	SOP40	M	S	pro
28	OCEEE4M08RS40SS4V250	4M	512K*8	30	99.8	99.8	SOP40	S	S	pro
29	OCEEE5M40VS64EE5C250	5M	128K*40	N/A	N/A	N/A	SOP64	E	E	pro
30	OCEEE5M40VS64IB5C250	5M	128K*40	N/A	N/A	N/A	SOP64	I	B	pro
31	OCEEE5M40VS64MB5C250	5M	128K*40	N/A	N/A	N/A	SOP64	M	B	pro
32	OCEEE5M40VS64MM5C250	5M	128K*40	N/A	N/A	N/A	SOP64	M	M	pro
33	OCEEE5M40RS64IS5C250	5M	128K*40	30	99.8	99.8	SOP64	I	S	pro
34	OCEEE5M40RS64MS5C250	5M	128K*40	30	99.8	99.8	SOP64	M	S	pro
35	OCEEE5M40RS64SS5C250	5M	128K*40	30	99.8	99.8	SOP64	S	S	pro
36	OCEEE5M40VS64EE5V250	5M	128K*40	N/A	N/A	N/A	SOP64	E	E	pro
37	OCEEE5M40VS64IB5V250	5M	128K*40	N/A	N/A	N/A	SOP64	I	B	pro
38	OCEEE5M40VS64MB5V250	5M	128K*40	N/A	N/A	N/A	SOP64	M	B	pro
39	OCEEE5M40VS64MM5V250	5M	128K*40	N/A	N/A	N/A	SOP64	M	M	pro
40	OCEEE5M40RS64IS5V250	5M	128K*40	30	99.8	99.8	SOP64	I	S	pro
41	OCEEE5M40RS64MS5V250	5M	128K*40	30	99.8	99.8	SOP64	M	S	pro
42	OCEEE5M40RS64SS5V250	5M	128K*40	30	99.8	99.8	SOP64	S	S	pro
43	OCEEE8M08VS40EE8C250	8M	1M*8	N/A	N/A	N/A	SOP40	E	E	pro

SIP EEPROM

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
44	OCEEE8M08VS40IB8C250	8M	1M*8	N/A	N/A	N/A	SOP40	I	B	pro
45	OCEEE8M08VS40MB8C250	8M	1M*8	N/A	N/A	N/A	SOP40	M	B	pro
46	OCEEE8M08VS40MM8C250	8M	1M*8	N/A	N/A	N/A	SOP40	M	M	pro
47	OCEEE8M08RS40IS8C250	8M	1M*8	30	99.8	99.8	SOP40	I	S	pro
48	OCEEE8M08RS40MS8C250	8M	1M*8	30	99.8	99.8	SOP40	M	S	pro
49	OCEEE8M08RS40SS8C250	8M	1M*8	30	99.8	99.8	SOP40	S	S	pro
50	OCEEE8M08VS40EE8V250	8M	1M*8	N/A	N/A	N/A	SOP40	E	E	pro
51	OCEEE8M08VS40IB8V250	8M	1M*8	N/A	N/A	N/A	SOP40	I	B	pro
52	OCEEE8M08VS40MB8V250	8M	1M*8	N/A	N/A	N/A	SOP40	M	B	pro
53	OCEEE8M08VS40MM8V250	8M	1M*8	N/A	N/A	N/A	SOP40	M	M	pro
54	OCEEE8M08RS40IS8V250	8M	1M*8	30	99.8	99.8	SOP40	I	S	pro
55	OCEEE8M08RS40MS8V250	8M	1M*8	30	99.8	99.8	SOP40	M	S	pro
56	OCEEE8M08RS40SS8V250	8M	1M*8	30	99.8	99.8	SOP40	S	S	pro
57	OCEEE8M32VS64EE8C250	8M	256K*32	N/A	N/A	N/A	SOP64	E	E	pro
58	OCEEE8M32VS64IB8C250	8M	256K*32	N/A	N/A	N/A	SOP64	I	B	pro
59	OCEEE8M32VS64MB8C250	8M	256K*32	N/A	N/A	N/A	SOP64	M	B	pro
60	OCEEE8M32VS64MM8C250	8M	256K*32	N/A	N/A	N/A	SOP64	M	M	pro
61	OCEEE8M32RS64IS8C250	8M	256K*32	30	99.8	99.8	SOP64	I	S	pro
62	OCEEE8M32RS64MS8C250	8M	256K*32	30	99.8	99.8	SOP64	M	S	pro
63	OCEEE8M32RS64SS8C250	8M	256K*32	30	99.8	99.8	SOP64	S	S	pro
64	OCEEE8M32VS64EE8V250	8M	256K*32	N/A	N/A	N/A	SOP64	E	E	pro
65	OCEEE8M32VS64IB8V250	8M	256K*32	N/A	N/A	N/A	SOP64	I	B	pro
66	OCEEE8M32VS64MB8V250	8M	256K*32	N/A	N/A	N/A	SOP64	M	B	pro
67	OCEEE8M32VS64MM8V250	8M	256K*32	N/A	N/A	N/A	SOP64	M	M	pro
68	OCEEE8M32RS64IS8V250	8M	256K*32	30	99.8	99.8	SOP64	I	S	pro
69	OCEEE8M32RS64MS8V250	8M	256K*32	30	99.8	99.8	SOP64	M	S	pro
70	OCEEE8M32RS64SS8V250	8M	256K*32	30	99.8	99.8	SOP64	S	S	pro

SIP DDR1

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE1D2G32VS86EE2T7B	2G	64M*32	N/A	N/A	N/A	SOP86	E	E	pro
2	OCE1D2G32VS86IB2T7B	2G	64M*32	N/A	N/A	N/A	SOP86	I	B	pro
3	OCE1D2G32RS86IS2T7B	2G	64M*32				SOP86	I	S	Contact us
4	OCE1D2G32RS86SS2T7B	2G	64M*32				SOP86	S	S	Contact us
5	OCE1D8G08VS66EE8T7B-I	8G	1G*8	N/A	N/A	N/A	SOP66	E	E	pro
6	OCE1D8G08VS66IB8T7B-I	8G	1G*8	N/A	N/A	N/A	SOP66	I	B	pro
7	OCE1D8G08RS66IS8T7B-I	8G	1G*8				SOP66	I	S	Contact us
8	OCE1D8G08RS66SS8T7B-I	8G	1G*8				SOP66	S	S	Contact us
9	OCE1D8G08VS66EE8T7B-II	8G	1G*8	N/A	N/A	N/A	SOP66	E	E	pro
10	OCE1D8G08VS66IB8T7B-II	8G	1G*8	N/A	N/A	N/A	SOP66	I	B	pro
11	OCE1D8G08RS66IS8T7B-II	8G	1G*8				SOP66	I	S	Contact us
12	OCE1D8G08RS66SS8T7B-II	8G	1G*8				SOP66	S	S	Contact us

SIP DDR1

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
13	OCE1D8G16VS78EE8T7B	8G	512M*16	N/A	N/A	N/A	SOP78	E	E	pro
14	OCE1D8G16VS78IB8T7B	8G	512M*16	N/A	N/A	N/A	SOP78	I	B	pro
15	OCE1D8G16RS78IS8T7B	8G	512M*16				SOP78	I	S	Contact us
16	OCE1D8G16RS78SS8T7B	8G	512M*16				SOP78	S	S	Contact us

SIP OBC

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE-E698-OBC-01-EE			N/A	N/A	N/A	QFP144	E	E	Contact us
2	OCE-E698-OBC-01-IB			N/A	N/A	N/A	QFP144	I	B	Contact us
3	OCE-E698-OBC-02-EE			N/A	N/A	N/A	QFP144	E	E	Contact us
4	OCE-E698-OBC-02-IB			N/A	N/A	N/A	QFP144	I	B	Contact us
5	OCE-E698-OBC-03-EE			N/A	N/A	N/A	PGA241	E	E	Contact us
6	OCE-E698-OBC-03-IB			N/A	N/A	N/A	PGA241	I	B	Contact us

SIP MCES

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE-MCES-01-EE			N/A	N/A	N/A	QF240	E	E	Contact us
2	OCE-MCES-01-IB			N/A	N/A	N/A	QF240	I	B	Contact us

E698PM

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE-E698PM-PB-I			N/A	N/A	N/A	PBGA784	I	B	Pro
2	OCE-E698PM-PB-M			N/A	N/A	N/A	PBGA784	M	M	Pro
3	OCE-E698PM-CC-E			N/A	N/A	N/A	CCGA576	E	E	Contact us
4	OCE-E698PM-CC-M			N/A	N/A	N/A	CCGA576	M	M	Contact us
5	OCE-E698PM-CC-V			300	99.8	15	CCGA576	M	S	Contact us

E698P4

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE-E698P4-CQ-I			N/A	N/A	N/A	CQFP256	I	B	Pro
2	OCE-E698P4-CQ-M			N/A	N/A	N/A	CQFP256	M	M	Pro

E698T

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE-E698T-PB-E			N/A	N/A	N/A	PBGA352	E	E	Pro
2	OCE-E698T-PB-I			N/A	N/A	N/A	PBGA352	I	B	Pro
3	OCE-E698T-CB-E			N/A	N/A	N/A	CBGA352	E	E	Pro
4	OCE-E698T-CB-M			N/A	N/A	N/A	CBGA352	M	M	Pro
5	OCE-E698T-CP-E			N/A	N/A	N/A	CPGA352	E	E	Pro
6	OCE-E698T-CP-M			N/A	N/A	N/A	CPGA352	M	M	Pro

E698MIL

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	E698MIL-PQ-E			N/A	N/A	N/A	PQFP160	E	E	Pro
2	E698MIL-PQ-I			N/A	N/A	N/A	PQFP160	I	B	Pro

OCE1553 Bus Controller

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE1553B-CP-E			N/A	N/A	N/A	CPGA70	E	E	Pro
2	OCE1553B-CP-I			N/A	N/A	N/A	CPGA70	I	B	Contact us

OCE429 Bus Controller

#	Specifications	Capacity (bit)	Organis-ation (Bit)	Radiation Hardened			Package	Temperature	Screening	Status
				TID ⁽¹⁾	SEL ⁽²⁾	SEU ⁽³⁾				
1	OCE429-D42			N/A	N/A	N/A	CDIP48	M	M	Pro
2	OCE429-D21			N/A	N/A	N/A	CDIP40	M	M	Pro
3	OCE429-D42			N/A	N/A	N/A	CDIP48	M	M	Pro
4	OCE429-D21			N/A	N/A	N/A	CDIP40	M	M	Pro

HIGH-CAPACITY NAND FLASH (FLASH)

Features

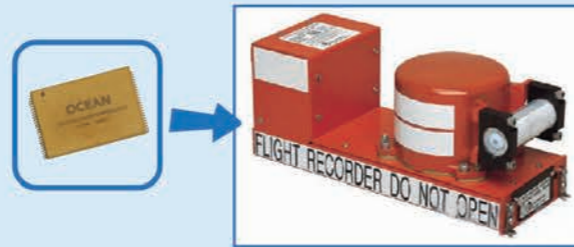
- Capacity: 2G ~ 128G bit;
- Data Bus Width: 8/16 bit;
- Command/Address/Data Multiplexed I/O Port;
- Automatic Program and Erase, Page Program, Block Erase;
- 100000 Program/Erase Cycles;
- 10 years data retention;
- Hardware Data Protection, Program/Erase Lockout During Power Transitions;
- Intelligent Copy-Back with internal 1bit/528Byte ECC;
- Voltage: 2.7 ~ 3.6V.



AVIATION-SPECIFIC NAND FLASH (FLASH)

Features

- Suitable for embedded data storage data recorders;
- Capacity: 256M ~ 128G bit;
- Data Bus Width: 8 bit;
- Command/Address/Data Multiplexed I/O Port;
- Automatic Program and Erase, Page Program, Block Erase;
- 100000 Program/Erase Cycles;
- 10 years data retention;
- Hardware Data Protection, Program/Erase Lockout During Power Transitions;
- Intelligent Copy-Back with internal 1bit/528Byte ECC;
- Voltage: 2.7 ~ 3.6V.



HIGH-CAPACITY HIGH-SPEED ASYNCHRONOUS STATIC RAM (SRAM)

Features

- Capacity: 4M ~ 32M bit;
- Data Bus Width: 8/16/32/40 bit;
- Fully static operation: no clock or refresh required;
- Access/clock: 12ns (min.);
- Tri-state outputs;
- Voltage 3.0 ~ 3.6V;
- TTL-compatible.



HIGH-CAPACITY HIGH-SPEED SYNCHRONOUS DYNAMIC RAM (SDRAM)

Features

- Capacity: 512M bit~4G bit;
- Data width: 8 /16/32/40/48bit;
- Access/clock:133MHZ(max);
- Tri-state outputs;
- Burst read/write operation and burst read/single write operation capability ;
- Programmable burst length (BL): 1, 2, 4, 8, full page;
- Refresh cycles: 8192 refresh cycles/64ms;
- Variations of refresh: Auto refresh/Self refresh;
- Voltage 3.3V;
- LVTTL-compatible.



MAGNETORESISTIVES RANDOM ACCESS MEMORY(MRAM)

Features

- Capacity: 1M ~ 64M bit;
- Data Bus Width: 8//32/40 bit;
- Access/clock: 35ns (min.);
- Unlimited Read & Write Endurance ;
- Automatic Data Protection on Power Loss ;
- Full Nonvolatile Operation with 20 Years Minimum Data Retention ;
- Voltage: 3.3V;
- One memory replaces Flash, SRAM, EEPROM and PROM in system for more efficient design .

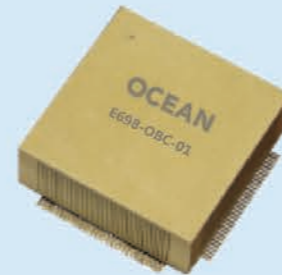


32-BIT RISC ON BOARD COMPUTER (OBC) MODULE

E698-OBC-01

Features

- Processor: SPARC V8 High-performance RISC Architecture ;
- Access/clock: 140MHz;
- Data bus: 32 bit ;
- Interface: 1553B 1-channel ;
- SRAM: 4MB ;
- FLASH: 4MB ;
- 2-channel UART;
- Integrated Debug Support Unit (DSU) ;
- 8-channel GPIO;
- 4-channel 12 bit A/D;
- 12-channel 32 bit counter;
- 4-channel 24 bit timer;
- 15 interrupt sources ;
- Voltage: 3.3V.

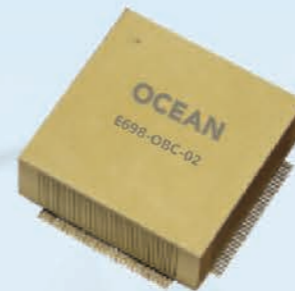


32-BIT RISC ON BOARD COMPUTER (OBC) MODULE

E698-OBC-02

Features

- Processor: SPARC V8 High-performance RISC Architecture ;
- Access/clock: 200MHz;
- Data bus: 32 bit ;
- 1-channel 1553B interface;
- 1-channel ARINC-429 interface,4 transmitter,2 receiver;
- 2-channel CAN 2.0 interface;
- SRAM: 4MB ;
- FLASH: 4MB ;
- 2-channel UART;
- Integrated Debug Support Unit (DSU) ;
- 4-channel GPIO;
- 4-channel 10 bit A/D;
- 4-channel 10 bit D/A;
- 4 external interrupt sources ;
- Voltage: 3.3V.



Custom Design and Manufacture Services

- OCE is able to package SRAM, SDRAM, FLASH, MRAM, DDR, DDR2, DDR3 and other memory devices into high capacity, high reliability, and high performance memory modules with different data bus widths as per custom specifications.
- OCE uses SiP technology to package complex computer circuit boards (e.g. CPU, A/D , I/O) into highly integrated and miniaturized SiP modules.



