

## EEPROM Series

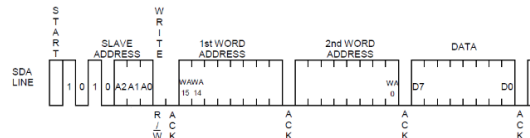
### Address and Page Configuration of I<sup>2</sup>C BUS EEPROM

#### Address

- For 4K/8K/16Kbit EEPROM, slave address bits A2, A1, A0 are used as address bits P2, P1, P0, because a 1-word address is not enough for expanding 1K/2K to 4K/8K/16Kbit.
- For 32K to 512Kbit EEPROM, slave address bits A2, A1, A0 can be used the same as 1K/2Kbit products, along with 2<sup>nd</sup> word address addition.
- For 1Mbit EEPROM, word address bits are insufficient even having a 2<sup>nd</sup> word address, so slave address bit A0 is used as address bit P0.

density [bit]	Slave Address								Word Address																address bit (n)	address (byte) A=2 <sup>n</sup>	byte per page B	total page P=A/B	total memory bit A*8bit
	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0	(1st) Word Address (** means Don't care)								2nd Word Address												
1K	1	0	1	0	A2	A1	A0	R/W	*	WA6	WA5	WA4	WA3	WA2	WA1	WA0									7	128	8	16	1024
2K	1	0	1	0	A2	A1	A0	R/W	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0									8	256	8	32	2048
4K	1	0	1	0	A2	A1	P0	R/W	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0									9	512	16	32	4096
8K	1	0	1	0	A2	P1	P0	R/W	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0									10	1024	16	64	8192
16K	1	0	1	0	P2	P1	P0	R/W	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0									11	2048	16	128	16384
32K	1	0	1	0	A2	A1	A0	R/W	*	*	*	*	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	12	4096	32	128	32768
64K	1	0	1	0	A2	A1	A0	R/W	*	*	*	WA12	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	13	8192	32	256	65536
128K	1	0	1	0	A2	A1	A0	R/W	*	*	WA13	WA12	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	14	16384	64	256	131072
256K	1	0	1	0	A2	A1	A0	R/W	*	WA14	WA13	WA12	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	15	32768	64	512	262144
512K	1	0	1	0	A2	A1	A0	R/W	WA15	WA14	WA13	WA12	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	16	65536	128	512	524288
1M	1	0	1	0	A2	A1	P0	R/W	WA15	WA14	WA13	WA12	WA11	WA10	WA9	WA8	WA7	WA6	WA5	WA4	WA3	WA2	WA1	WA0	17	131072	256	512	1048576

example of BR24G-3/3A series



Example; byte write command for 512kbit

#### Page

The number of addresses per page varies depending on the memory capacity. Please see the datasheet of each product.

BR24G-3/3A Series (up to 32K)

memory density	1K	2K	4K	8K	16K	32K
total page	8	16	32	32	64	128
address per page	16	16	16	32	32	32
page number	Address location		Address location		Address location	
0	00h ~ 0Fh	00h ~ 0Fh	00h ~ 0Fh	00h ~ 1Fh	00h ~ 1Fh	00h ~ 1Fh
1	10h ~ 1Fh	10h ~ 1Fh	10h ~ 1Fh	20h ~ 3Fh	20h ~ 3Fh	20h ~ 3Fh
2	20h ~ 2Fh	20h ~ 2Fh	20h ~ 2Fh	40h ~ 5Fh	40h ~ 5Fh	40h ~ 5Fh
3	30h ~ 3Fh	30h ~ 3Fh	30h ~ 3Fh	60h ~ 7Fh	60h ~ 7Fh	60h ~ 7Fh
4	40h ~ 4Fh	40h ~ 4Fh	40h ~ 4Fh	80h ~ 9Fh	80h ~ 9Fh	80h ~ 9Fh
5	50h ~ 5Fh	50h ~ 5Fh	50h ~ 5Fh	A0h ~ BFh	A0h ~ BFh	A0h ~ BFh
6	60h ~ 6Fh	60h ~ 6Fh	60h ~ 6Fh	C0h ~ DFh	C0h ~ DFh	C0h ~ DFh
7	70h ~ 7Fh	70h ~ 7Fh	70h ~ 7Fh	E0h ~ FFh	E0h ~ FFh	E0h ~ FFh
8		80h ~ 8Fh	80h ~ 8Fh	100h ~ 11Fh	100h ~ 11Fh	100h ~ 11Fh
9		90h ~ 9Fh	90h ~ 9Fh	120h ~ 13Fh	120h ~ 13Fh	120h ~ 13Fh
10		A0h ~ AFh	A0h ~ AFh	140h ~ 15Fh	140h ~ 15Fh	140h ~ 15Fh
11		B0h ~ BFh	B0h ~ BFh	160h ~ 17Fh	160h ~ 17Fh	160h ~ 17Fh
12		C0h ~ CFh	C0h ~ CFh	180h ~ 19Fh	180h ~ 19Fh	180h ~ 19Fh
13		D0h ~ DFh	D0h ~ DFh	1A0h ~ 1BFh	1A0h ~ 1BFh	1A0h ~ 1BFh
14		E0h ~ EFh	E0h ~ EFh	1C0h ~ 1DFh	1C0h ~ 1DFh	1C0h ~ 1DFh
15		F0h ~ FFh	F0h ~ FFh	1E0h ~ 1FFh	1E0h ~ 1FFh	1E0h ~ 1FFh
16			100h ~ 10Fh	200h ~ 21Fh	200h ~ 21Fh	200h ~ 21Fh
17			110h ~ 11Fh	220h ~ 23Fh	220h ~ 23Fh	220h ~ 23Fh
18			120h ~ 12Fh	240h ~ 25Fh	240h ~ 25Fh	240h ~ 25Fh
19			130h ~ 13Fh	260h ~ 27Fh	260h ~ 27Fh	260h ~ 27Fh
20			140h ~ 14Fh	280h ~ 29Fh	280h ~ 29Fh	280h ~ 29Fh
21			150h ~ 15Fh	2A0h ~ 2BFh	2A0h ~ 2BFh	2A0h ~ 2BFh
22			160h ~ 16Fh	2C0h ~ 2DFh	2C0h ~ 2DFh	2C0h ~ 2DFh
23			170h ~ 17Fh	2E0h ~ 2FFh	2E0h ~ 2FFh	2E0h ~ 2FFh
24			180h ~ 18Fh	300h ~ 31Fh	300h ~ 31Fh	300h ~ 31Fh
25			190h ~ 19Fh	320h ~ 33Fh	320h ~ 33Fh	320h ~ 33Fh
26			1A0h ~ 1AFh	340h ~ 35Fh	340h ~ 35Fh	340h ~ 35Fh
27			1B0h ~ 1BFh	360h ~ 37Fh	360h ~ 37Fh	360h ~ 37Fh
28			1C0h ~ 1CFh	380h ~ 39Fh	380h ~ 39Fh	380h ~ 39Fh
29			1D0h ~ 1DFh	3A0h ~ 3BFh	3A0h ~ 3BFh	3A0h ~ 3BFh
30			1E0h ~ 1EFh	3C0h ~ 3DFh	3C0h ~ 3DFh	3C0h ~ 3DFh
31			1F0h ~ 1FFh	3E0h ~ 3FFh	3E0h ~ 3FFh	3E0h ~ 3FFh
32					...	...

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