

## Configuration

Instance	Domain	Configuration
MEMCONF : S	GLOBAL	
MEMCONF : NS		

## Register overview

Register	Offset	TZ	Description
POWER[n].CONTROL	0x500		Control memory block power.
POWER[n].RET	0x508		RAM retention for RAM [n].
POWER[n].RET2	0x50C		RAM retention for the second bank in the RAM block

### 4.2.5.1.1 POWER[n].CONTROL (n=0..1)

Address offset:  $0x500 + (n \times 0x10)$

Control memory block power.

Where  $n = 0$  for memory blocks 0 to 31 and  $n = 1$  for memory blocks 32 to 63.

Bit number				31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
ID				f	e	d	c	b	a	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
Reset 0xFFFFFFFF				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ID	R/W	Field	Value ID	Value	Description																														
A-f	RW	MEM[i] (i=0..31)			Keep the memory block MEM[i] on or off when in System ON mode.																														
					RAM blocks powered off this way will not be retained. All RAM blocks will be off in System OFF mode.																														
			Off	0	Power down																														
			On	1	Power up																														

### 4.2.5.1.2 POWER[n].RET (n=0..1)

Address offset:  $0x508 + (n \times 0x10)$

RAM retention for RAM [n].

Where  $n = 0$  for RAM blocks 0 to 31 and  $n = 1$  for RAM blocks 32 to 63.

Bit number				31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
ID				f	e	d	c	b	a	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
Reset 0xFFFFFFFF				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ID	R/W	Field	Value ID	Value		Description																													
A-f	RW	MEM[i] (i=0..31)				Keep the RAM block MEM[i] retained when in System OFF mode.																													
						All other RAM will be off in System OFF mode.																													
			Off	0		Retention off																													
			On	1		Retention on																													

### 4.2.5.1.3 POWER[n].RET2 (n=0..1)

Address offset:  $0x50C + (n \times 0x10)$

RAM retention for the second bank in the RAM block

Where  $n = 0$  for RAM blocks 0 to 31 and  $n = 1$  for RAM blocks 32 to 63.