

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	0	write 8		1	0	1	8	1	write 8	
1	0	1	9	0	write 9		1	0	1	9	2	write 9	
1	0	1	10	0	write A		1	0	1	10	3	write A	
1	0	1	11	0	write B		1	0	1	11	4	write B	
1	0	1	12	0	write C		1	0	1	12	5	write C	
1	0	1	13	0	write D		1	0	1	13	6	write D	
1	0	1	14	0	write E		1	0	1	14	7	write E	
1	0	1	15	0	write F		1	0	1	15	8	write F	
1	0	1	0	0	read		1	0	1	0	9	read	
1	0	1	0	0	read		1	0	1	0	10	read	
1	0	1	0	0	read		1	0	1	0	11	read	
1	0	1	0	0	read		1	0	1	0	12	read	
1	0	1	0	0	read		1	0	1	0	13	read	
1	0	1	0	0	read		1	0	1	0	14	read	
1	0	1	0	0	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	0	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	1	write 7		1	0	1	7	0	write 7	
1	0	1	8	2	write 8		1	0	1	8	1	write 8	
1	0	1	9	3	write 9		1	0	1	9	2	write 9	
1	0	1	10	4	write A		1	0	1	10	3	write A	
1	0	1	11	5	write B		1	0	1	11	4	write B	
1	0	1	12	6	write C		1	0	1	12	5	write C	
1	0	1	13	7	write D		1	0	1	13	6	write D	
1	0	1	14	8	write E		1	0	1	14	7	write E	
1	0	1	15	9	write F		1	0	1	15	8	write F	
1	0	1	0	10	read		1	0	1	0	9	read	
1	0	1	0	11	read		1	0	1	0	10	read	
1	0	1	0	12	read		1	0	1	0	11	read	
1	0	1	0	13	read		1	0	1	0	12	read	
1	0	1	0	14	read		1	0	1	0	13	read	
1	0	1	0	15	read		1	0	1	0	14	read	
1	0	1	0	0	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation		nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated	0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated		1	0	0	0	0	load activated	
1	0	1	0	0	write 0		1	0	1	0	0	write 0	
1	0	1	1	0	write 1		1	0	1	1	0	write 1	
1	0	1	2	0	write 2		1	0	1	2	0	write 2	
1	0	1	3	0	write 3		1	0	1	3	0	write 3	
1	0	1	4	0	write 4		1	0	1	4	0	write 4	
1	0	1	5	0	write 5		1	0	1	5	0	write 5	
1	0	1	6	0	write 6		1	0	1	6	0	write 6	
1	0	1	7	0	write 7		1	0	1	7	0	write 7	
1	0	1	8	1	write 8		1	0	1	8	1	write 8	
1	0	1	9	2	write 9		1	0	1	9	2	write 9	
1	0	1	10	3	write A		1	0	1	10	3	write A	
1	0	1	11	4	write B		1	0	1	11	4	write B	
1	0	1	12	5	write C		1	0	1	12	5	write C	
1	0	1	13	6	write D		1	0	1	13	6	write D	
1	0	1	14	7	write E		1	0	1	14	7	write E	
1	0	1	15	8	write F		1	0	1	15	8	write F	
1	0	1	0	9	read		1	0	1	0	9	read	
1	0	1	0	10	read		1	0	1	0	10	read	
1	0	1	0	11	read		1	0	1	0	11	read	
1	0	1	0	12	read		1	0	1	0	12	read	
1	0	1	0	13	read		1	0	1	0	13	read	
1	0	1	0	14	read		1	0	1	0	14	read	
1	0	1	0	15	read		1	0	1	0	15	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	read		1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated		1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated	1	1	1	0	0	nEnable activated	LOAD deactivated
1	0	0	0	0	nEnable activated	LOAD deactivated	1	0	0	0	0	nEnable activated	LOAD deactivated
36	1	34	120	120	0	0	36	1	34	120	120	0	0

IDEAL

nCLR	nEnable	LOAD	fifo_in	fifo_out	operation	
0	0	0	0	0	enable activated	clear deactivated
1	0	0	0	0	load activated	
1	0	1	0	0	write 0	
1	0	1	1	0	write 1	
1	0	1	2	0	write 2	
1	0	1	3	0	write 3	
1	0	1	4	0	write 4	
1	0	1	5	0	write 5	
1	0	1	6	0	write 6	
1	0	1	7	0	write 7	
1	0	1	8	1	write 8	
1	0	1	9	2	write 9	
1	0	1	10	3	write A	
1	0	1	11	4	write B	
1	0	1	12	5	write C	
1	0	1	13	6	write D	
1	0	1	14	7	write E	
1	0	1	15	8	write F	
1	0	1	0	9	read	
1	0	1	0	10	read	
1	0	1	0	11	read	
1	0	1	0	12	read	
1	0	1	0	13	read	
1	0	1	0	14	read	
1	0	1	0	15	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	read	
1	0	1	0	0	nEnable deactivated	
1	1	1	0	0	nEnable activated	LOAD deactivated
35	1	34	120	120	0	0