Gugaplexing TicTacToe Logic Table									
						Circuit			
P1	<b>P2</b>	Р3	P4	LED (L)	USE	Activated			
1	0	Z	Z	1	AX	P1 to P2			
0	1	Z	Z	2	ВХ	P1 to P2			
0	0	Z	Z	12	СО	PR1 to P2			
1	1	Z	Z	13	DO	PR1 to P2			
1	Z	0	Z	10	AO	P1 to P3			
0	Z	1	Z	11	ВО	P1 to P3			
0	Z	0	Z	5	EX	PR1 to P3			
1	Z	1	Z	6	FX	PR1 to P3			
1	Z	Z	0	3	CX	P1 to P4			
0	Z	Z	1	4	DX	P1 to P4			
0	Z	Z	0	14	EO	PR1 to P4			
1	Z	Z	1	15	FO	PR1 to P4			
Z	1	0	Z	16	GO	P2 to P3			
Z	0	1	Z	17	НО	P2 to P3			
Z	0	0	Z	18	10	PR2 to P3			
Z	1	1	Z	20	Player 2	PR2 to P3			
Z	1	Z	0	7	GX	P2 to P4			
Z	0	Z	1	8	HX	P2 to P4			
Z	0	Z	0	9	IX	PR2 to P4			
Z	1	Z	1	19	Player 1	PR2 to P4			
Z	Z	1	0	21	Not Used	P3 to P4			
Z	Z	0	1	22	Not Used	P3 to P4			
Z	Z	0	0	23	Not Used	PR3 to P4			
Z	Z	1	1	24	Not Used	PR3 to P4			

PR#: LEDs connected to transistors

Gugaplexing TicTacToe (by LED)									
						Circuit			
P1	P2	Р3	P4	LED (L)	USE	Activated			
1	0	Z	Z	1	AX	P1 to P2			
0	1	Z	Z	2	BX	P1 to P2			
1	Z	Z	0	3	CX	P1 to P4			
0	Z	Z	1	4	DX	P1 to P4			
0	Z	0	Z	5	EX	PR1 to P3			
1	Z	1	Z	6	FX	PR1 to P3			
Z	1	Z	0	7	GX	P2 to P4			
Z	0	Z	1	8	HX	P2 to P4			
Z	0	Z	0	9	IX	PR2 to P4			
1	Z	0	Z	10	AO	P1 to P3			
0	Z	1	Z	11	ВО	P1 to P3			
0	0	Z	Z	12	СО	PR1 to P2			
1	1	Z	Z	13	DO	PR1 to P2			
0	Z	Z	0	14	EO	PR1 to P4			
1	Z	Z	1	15	FO	PR1 to P4			
Z	1	0	Z	16	GO	P2 to P3			
Z	0	1	Z	17	НО	P2 to P3			
Z	0	0	Z	18	10	PR2 to P3			
Z	1	Z	1	19	Player 1	PR2 to P4			
Z	1	1	Z	20	Player 2	PR2 to P3			
Z	Z	1	0	21	Not Used	P3 to P4			
Z	Z	0	1	22	Not Used	P3 to P4			
Z	Z	0	0	23	Not Used	PR3 to P4			
Z	Z	1	1	24	Not Used	PR3 to P4			

PR#: LEDs connected to transistors