			Inpu	t	Output
AND Any low in = Low					A AND B
		l , ,		A 0	O A AND B
		A·B	0	1	0
out				0	0
331			1	1	1
OR Any high in = High out	→	A + B	Input		Output
				Α	A OR B
			0	0	0
			0	1	1
				0	1
			1	1	1
NOT Input is inverted	→	A	Input		Output
			Α		NOT A
			0		1
					-
			1		0
NAND Any low in = High out		A · B	Inpu	t	Output
				Α	A NAND B
				0	1
			0	1	1
			1	0	1
			1	1	0
			Inpu	ıt	Output
NOR	1		<u> </u>	h A	Output A NOR B
NOR	7	<u> </u>	B 0	A 0	A NOR B
Any high in =		A + B	B 0 0	A 0 1	A NOR B 1 0
		A + B	B 0 0 1	A 0 1 0	A NOR B 1 0 0
Any high in =		A + B	B 0 0 1 1 1 1	A 0 1 0 1 1	A NOR B 1 0 0
Any high in = Low out		A + B	B 0 0 1 1 1	A 0 1 0 1	A NOR B 1 0 0 0 Output
Any high in =			B 0 0 1 1 1 1 Inpu	A 0 1 0 1 1 1 1 1 1 1 A	A NOR B 1 0 0 0 Output A XOR B
Any high in = Low out XOR			B 0 0 1 1 1 1 Inpu	A 0 1 0 1 1 1 A 0 0	A NOR B 1 0 0 0 Output A XOR B 0
Any high in = Low out XOR Odd count of		A + B A ⊕ B	B 0 0 1 1 1 1 Inpu	A 0 1 0 1 1 A 0 1 1 1	A NOR B 1 0 0 0 Output A XOR B 0
Any high in = Low out XOR			B 0 0 1 1 1 1 Inpu	A 0 1 0 1 1 1 A 0 0	A NOR B 1 0 0 0 Output A XOR B 0
Any high in = Low out XOR Odd count of			B 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 A 0 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0
Any high in = Low out XOR Odd count of highs = High			B 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 A 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output
Any high in = Low out XOR Odd count of highs = High XNOR		A ⊕ B	B 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 A 0 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0
Any high in = Low out XOR Odd count of highs = High XNOR Even count of			B 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 A 0 1 0 1 1 0 1 1 1 A A 0 1 1 0 1 1 1 A A	A NOR B 1 0 0 0 Output A XOR B 0 1 1 0 Output A XOR B
Any high in = Low out XOR Odd count of highs = High XNOR Even count of		A ⊕ B	B 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 A 0 1 A 0 1 A 0 0 1 A 0 0 1 A 0 0 0 A 0 A 0	A NOR B 1 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B
Any high in = Low out XOR Odd count of highs = High XNOR		A ⊕ B	B 0 0 1 1 1 1 Inpu B 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 1 0 1 1 1 A 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B 1 0 Output A XNOR B 1 1 1 1
Any high in = Low out XOR Odd count of highs = High XNOR Even count of		A ⊕ B	B 0 0 1 1 1 Inpu B 0 0 0 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1	A 0 1 1 0 1 1 1 A 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B 1 0 Output A XNOR B
Any high in = Low out XOR Odd count of highs = High XNOR Even count of highs = high		A ⊕ B	B 0 0 1 1 1 1 Inpu B 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 1 1 0 1 1 A 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B 1 0 Output A XNOR B 1 1 1 1
Any high in = Low out XOR Odd count of highs = High XNOR Even count of highs = high		A ⊕ B	B 0 0 1 1 1 Inpu B 0 0 0 1 1 1 1 Inpu Inpu Inpu Inpu	A 0 1 1 0 1 1 A 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B 1 0 Output A XNOR B 1 0 Output Output A XNOR B
Any high in = Low out XOR Odd count of highs = High XNOR Even count of highs = high		A ⊕ B	B 0 0 1 1 1 Inpu B 0 0 0 1 1 1 Inpu A	A 0 1 1 0 1 1 A 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1	A NOR B 1 0 0 0 0 Output A XOR B 0 1 1 0 Output A XNOR B 1 0 Output A XNOR B 1 O Output A XNOR B