

GateLogic

MIDI Program Changes 1 to 64

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
	1-8	9-16	17-24	25-32	33-40	41-48 Count N	49-56 Count N	57-64 Clock Division
	Modes	Modes	Modes	Modes	Modes			
1	Q=B	OR Q=A+B'	Toggle Q=/Q ↑A B' enable	Delay Q= /Ahold.A.B + A./B	Q = ↑B ↑A A width	÷1	÷9	÷1 Sixteenth
2	OR Q=A+B	IOR Q=/A+B'	Toggle Q=/Q ↓A B' enable	Delay Q= /Ahold.A.B' + A./B'	Q = ↓B ↑A A width	÷2	÷10	÷2 Eighth
3	IOR Q=/A+B	AND Q=A.B'	D Latch Q=B ↑A	Divide Q=A÷N B enable	Q = ↑↓B ↑A A width	÷3	÷11	÷3 Dotted Eighth
4	AND Q=A.B	IAND Q=/A.B'	D Latch Q=B ↓A	Divide Q=A÷N B' enable	Q = ↑B' ↑A A width	÷4	÷12	÷4 Quarter
5	IAND Q=/A.B	XOR Q=A⊕B'	SR Latch Q=set ↑A B reset	Dead Counter Q= NxA B enable	Q = ↓B' ↑A A width	÷5	÷13	÷5 Five Sixteenth
6	XOR Q=A⊕B	IXOR Q=/A⊕B'	SR Latch Q=set ↓A B reset	Dead Counter Q= NxA B' enable	Q = ↑↓B' ↑A A width	÷6	÷14	÷6 Dotted Quarter
7	IXOR Q=/A⊕B	Toggle Q=/Q ↑A B enable	Monostable Q=Ahold.A	Retrigger Q=NxA B enable		÷7	÷15	÷7 Double Dotted Quarter
8	Q=B'	Toggle Q=/Q ↓A B enable	Delay Q=/Ahold.A	Gate & Trigger		÷8	÷16	÷8 Half

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MIDI Program Changes 65 to 64

	Group 9	Group 10
	65-72 LFO Range	73-76 Gate
1	LFO Ultra Wide Range 8mHz -100Hz	MIDI Gate Disable
2	LFO Low Range 75-150bpm	MIDI Gate Enable
3	LFO High Range 150-300bpm	Knob CC Disable
4	LFO Fine Range 95-135bpm	Knob CC Enable
5	Prescale Sixteenths (÷6)	
6	Prescale Eighth Triplets (÷4)	
7	x24 Clock (÷1)	
8	MIDI Clock Select	

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MIDI Implementation Chart

Function		Transmitted	Recognised	Remarks
Basic Channel	Default Changed	1-16	1-16	
Mode	Default Messages Altered	X	O	* Note 4
Note Number	True Voice	O	O	
Velocity	Note On Note Off	O X	O O	Last note received is transmitted on Q
Aftertouch	Key Channel	X X	X X	
Pitch Bend		X	X	
Control Change		O	X	* Note 5
Program Change		X	O	* Note 2
System Exclusive		X	O	* Note 3
System Common	MTC Song Position Song Select Tune	X X X X	X X X X	
System Real Time	Clock Commands	O O	O O	* Note 1 * Note 1
Aux Messages	Local ON/OFF All Notes Off Active Sense Reset	X X X X	X O X X	

Notes: 1. Every MIDI Real Time message is passed thru.

2. Program 1-38 set the Mode, 41-72 set LFO and divisions, 72 and 73 toggle MIDI Gate enable. 74 and 75 toggle MIDI CC enable.

3. MIDI Channel and LFO Inc are set by SysEx

4. ANO and Channel Mode changes clear all notes.

5. Knob value may be sent as CC GP#1

O : Yes
X : No