



T960 Sequencer Clone

OPERATING SYSTEM V0.9

T960 Sequencer Clone – Run Modes

- ▶ Initial run mode / sequencer stop
- ▶ μ controller / clock driven 8 x 3 steps
- ▶ μ controller / clock driven 16 x 1 steps
- ▶ μ controller / clock driven 24 x 1 steps
- ▶ Graphical VCO
- ▶ MIDI note on / note off driven 8 x 3 steps

T960 Sequencer Clone – Initial run mode / sequencer stop

- ▶ Step selection („SET“ trigger) enabled
- ▶ OSC. ON selection enabled (selects modus „clock driven“)
- ▶ SHIFT function enabled
- ▶ OSC. OFF selection disabled
- ▶ Sequencer disabled
- ▶ MIDI disabled

T960 Sequencer Clone – Initial run mode / sequencer stop

- Read SET trigger / voltage
 - ➔ Select corresponding step
- Read OSC. ON pulse / trigger
 - ➔ Select next run state
- Read SHIFT pulse / trigger
 - ➔ Select next / first step

T960 Sequencer Clone – μcontroller / clock driven

- ▶ OSC. ON selection enabled (selects next run state)
- ▶ OSC. OFF selection enabled (selects run state „Initial / Stop“)
- ▶ Sequencer clock drive enabled
- ▶ Step selection („SET“ trigger) disabled
- ▶ SHIFT function disabled
- ▶ MIDI note on / note off driven functionality disabled
- ▶ MIDI output row 3 enabled

T960 Sequencer Clone – µcontroller / clock driven 8 x 3 steps

- Read OSC ON pulse / trigger
 - Select next run state
- Read OSC. OFF pulse
 - Change run state to „Initial / Stop“
- Read CV (Sum (RANGE / VERNIER / CONTROL INPUT))
- Read step operation (SLOTOP)
- Read 3rd ROW FUNCTION
 - Select „normal“ operation
 - Select next / first step time based
 - Create trigger / ratchet
- Create MIDI OUT sequence of 3rd row in case of 3rd row normal operation modus
- Read RUN MODE
 - Change run state to „Initial / Stop“ at step 8

T960 Sequencer Clone – µcontroller / clock driven 16 x 1 steps

- Read OSC ON pulse / trigger
 - Select next run state
- Read OSC. OFF pulse
 - Change run state to „Initial / Stop“
- Read CV (Sum (RANGE / VERNIER / CONTROL INPUT))
- Read 3rd ROW FUNCTION
 - Select „normal“ operation
 - Select next / first step time based
 - Create trigger / ratchet
- Create MIDI OUT sequence 8 x 2 of 3rd row voltage
- Read RUN MODE
 - Change run state to „Initial / Stop“ at step 16

T960 Sequencer Clone – μcontroller / clock driven 24 x 1 steps

- Read OSC ON pulse / trigger
 - Select next run state
- Read OSC. OFF pulse
 - Change run state to „Initial / Stop“
- Read CV (Sum (RANGE / VERNIER / CONTROL INPUT))
- Read RUN MODE
 - Change run state to „Initial / Stop“ at step 24

T960 Sequencer Clone – Graphical VCO Mode

- ▶ OSC. ON selection enabled (selects next run state)
- ▶ OSC. OFF selection enabled (selects run state „Initial / Stop“)
- ▶ Sequencer clock drive enabled
- ▶ Step selection („SET“ trigger) disabled
- ▶ SHIFT function disabled
- ▶ MIDI note on / note off driven functionality disabled
- ▶ MIDI output row 3 enabled
- ▶ Higher speed rate for graphical VCO functionality

T960 Sequencer Clone – MIDI note on / note off driven

- ▶ MIDI note on / note off drive enabled
- ▶ OSC. ON selection enabled (selects next run state)
- ▶ OSC. OFF selection enabled (selects modus „Initial / Stop“)
- ▶ Step selection („SET“ trigger) disabled
- ▶ OSC. ON selection disabled
- ▶ Sequencer clock drive disabled
- ▶ SHIFT function disabled

T960 Sequencer Clone – MIDI note on / note off driven 8 x 3 steps

- Read OSC ON pulse / trigger
 - Select next run state
- Read OSC. OFF pulse
 - Change run state to „Initial / Stop“
- Process MIDI sequence
 - Select next / first step
 - Create gate / trigger

T960 Sequencer Clone – Current run states

0: Initial run
mode /
sequencer stop

1: μ controller /
clock driven
8 x 3 steps

2: μ controller /
clock driven
16 x 1 steps

3: μ controller /
clock driven
24 x 1 steps

4: Graphical
VCO Mode

5: MIDI note on /
note off driven
8 x 3 steps

T960 Sequencer Clone – Ratchet Clock Out Sequence

<i>Trigger</i>	<i>Ratchet 1</i>	<i>Ratchet 2</i>	<i>Ratchet 3</i>	<i>Ratchet 4</i>	<i>Ratchet 5</i>	<i>Ratchet 6</i>
1	set	set	set	set	set	set
2				clr	clr	clr
3			clr		set	set
4		clr		set	clr	clr
5			set	clr	set	set
6	clr				clr	clr
7		set	clr	set	set	set
8				clr	clr	clr
9			set		set	set
10		clr		set	clr	clr
11			clr	clr		set
12						clr

