#### Soontech Annals

# LC07: Decimal Delay Generator

By: Andrews54757

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#### **Features**

- 10gt to 19gt variable delay
- SS5-14 input
- Not random activation timings safe

# **Applications**

• Slot iterator device for dynamic bulk code mappings storage.

## **General Description**

The LC07 Decimal Delay Generator takes a decimal input and outputs a pulse after a delay of 10 to 19 game ticks. The delay is equal to the input signal strength plus 5. The device can be used to generate precise extraction trigger signal for a 1 slot/gt iterator device.

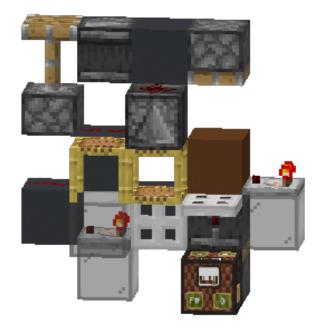


Figure 1: Decimal Delay Generator

# **Device Specifications**

### Table 1: Inputs

Name	Range	Description			
Decimal input	5-14	Determines length of delay. Delay is signal strength $+5gt$			
Input trigger	Pulse	Starts the delay generator			

#### Table 2: Outputs

Name	Range	Description		
Delayed trigger	Pulse	Delayed output pulse		

#### Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	22	-	-	gt	Normal Usage
Delay	10	-	19	gt	From input to dropper activation.
MC Version	1.16	1.19.3	-	MCV	Latest version at time of writing: 1.20.4
Dimensions		4 x 5 x 2		Blocks	

# **Testing Data**

Table 4: Executed Tests

Test	Result
Delay test	Device was able to produce all delays ranging from 10 to 19 gt as determined by the input signal strength.
Failed random timings test	Device was unable to survive random activation timings. A slider became stuck in the wrong state.

# **Download Information**

Table 5: Download Information

Identifier	MC	File	Description	
LC07	1.19.3	LC07_Decimal_Delay_Generator.litematic	Schematic of device. cluded.	Test input regions in-